

| Model # | Aaronia AG Product Description |
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| RF Spectrum Analyzers - HF4000 V3 & HF6000 V4 Series | |
| HF 2025E | RF Analyzer System 700MHz - 2.5GHz |
| HF 4040 | RF Analyzer System 100MHz - 4GHz |
| HF 4060 | RF Analyzer System 100MHz - 6GHz |
| HF 6065 V4* | RF Analyzer System 10MHz - 6GHz |
| HF 6085 V4* | RF Analyzer System 10MHz - 8GHz |
| HF 60105 V4* | RF Analyzer System 1MHz - 9.4GHz |
| HF 6065-X V4** | RF Analyzer-X (PC Ver) 10MHz - 6GHz |
| HF 60105-X V4** | RF Analyzer-X (PC Ver) 1MHz - 9.4GHz |
| Rugged Outdoor Sweep Spectrum Analyzer (Military Standard) | |
| HF-XFR PRO | Armour Harded Computer 1MHz - 9.4GHz |
| HF-XFR PRO V5 | Armour Harded Computer 9KHz - 20GHz |
| RSA6000 | Rack Mounted 10MHz - 6GHz |
| RSA9000 | Rack Mounted 1MHz - 9.4GHz |
| Spectrum Analyzer Bundles | |
| Pro Bundle-1* | HF6065/NF5035 Bundle 1Hz - 6GHz |
| Pro Bundle-2* | HF6085/NF5035 Bundle 1Hz - 8GHz |
| Pro Bundle-3* | HF60105/NF5035 Bundle 1Hz - 9.4GHz |
| EMC Analyzer Bundles | |
| EMC Bundle-1* | EMC Bundle 1Hz - 9.4GHz Near Field |
| EMC Bundle-2* | EMC Bundle 1Hz - 9.4GHz Far Field |
| EMC Bundle-3* | EMC Bundle 1Hz - 9.4GHz Near & Far |
| Options / Accessories | |
| Bug015 | Audio Tracker / Bug Sniffer |
| RSA-EMF | RSA - EMF Software Web interface |
| RSA - PC | RSA - PC Upgrade to i5-2405s, 2.4GHz |
| 1MB - HF | 1MB Memory HF |
| TCXO 0.5ppm | Freq Stability (V4 Only) |
| 6GHz Detect | Peak Detect (HF6065 Only) |
| 10GHz Detect | Peak Detect (HF60105 Only) |
| HF 9KHz | 9KHz Range Ext Option (HF60105 only) |
| AA 1300 mAh | Battery - Standard |
| AA 3000 mAh | Battery - Extended (LiPO) |
| AA 17600mAh | Battery - Super Extended External |
| AA20ATTN | 20db SMA Attenuator (DC-18GHz) |
| AADCBK | DC Blocker (18VDC) |
| AACR | Calibration Resistor (50Ohm) |
| AC120-220 | Universal AC Adaptor |
| RPB | Rubber Protective Boot |
| CAL-HF | Calibration Certificate |
| Description: The HF4000 & 6000 series of RF analyzers are sold as system kits that include: a handheld LOG Periodic antenna, AC charger/adaptor, aluminum carrying case, mini-tripod stand, 1Meter SMA cable, USB cable, PC software & documentation. *All HF V4 models include the internal Pre-Amp option. **X Version includes the OmniLOG90200 but does not include HyperLOG, tripod and 1-M cable. | |
| RF Spectrum Analyzers - HF8000 V5 Series | |
| HF 8060 | RF Analyzer 9KHz - 6GHz |
| HF 80120 | RF Analyzer 9KHz - 12GHz |
| HF 80160 | RF Analyzer 9KHz - 16GHz |
| HF 80200 | RF Analyzer 9KHz - 20GHz |
| HF 8060-X | RF Analyzer-X (USB Ver) 9KHz - 6GHz |
| HF 80120-X | RF Analyzer-X (USB Ver) 9KHz - 12GHz |
| HF 80160-X | RF Analyzer-X (USB Ver) 9KHz - 16GHz |
| HF 80200-X | RF Analyzer-X (USB Ver) 9KHz - 20GHz |
| RSA 8060 | Rack Mounted 9KHz - 6GHz |
| RSA 80120 | Rack Mounted 9KHz - 12GHz |

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| RSA 80160 | Rack Mounted 9KHz - 16GHz |
| RSA 80200 | Rack Mounted 9KHz - 20GHz |
| V5 Drone Detection Systems | |
| DDS XFR | HF-XFR + IsoLOG 80-UWB |
| DDS RF Comm | RF Command + IsoLOG 80-UWB |
| Options / Accessories | |
| RSA-EMF | RSA - EMF Software Web interface |
| RSA - PC | RSA - PC Upgrade to i5-2405s, 2.4GHz |
| 1MB - HFV5 | 1MB Memory HF V5 |
| LPN V5 | Low Phase Noise |
| 20GHz Detect | Peak Detect 20GHz |
| 40GHz Detect | Peak Detect 40GHz |
| 80MHz RTBW | 80MHz Real-Time BW |
| 160MHz RTBW | 160MHz Real-Time BW |
| HF1Hz | 1Hz - 40MHz Freq Extension |
| OCXO .005PPM | Freq Stability V5 |
| Track Gen V5 | Tracking / I/Q Generator 23Mhz - 6GHz |
| Broadband Preamplifiers | |
| UBBv1 | External 40db Pre-amp 1MHz - 1GHz |
| UBBv2 | External 40db Pre-amp 1KHz - 8GHz |
| UBBv910 | Ext Low Noise 22db Pre-amp 9KHz - 6GHz |
| UBBv1060 | Ext Low Noise 22db Pre-amp 10MHz - 6GHz |
| AA 8000 mAh | Battery - Extended (LiPO) |
| AA 17600mAh | Battery - Super Extended External |
| AA20ATTN | 20db SMA Attenuator (DC-18GHz) |
| AADCBLK | DC Blocker (18VDC) |
| AACR | Calibration Resistor (50Ohm) |
| AC120-220 V5 | Universal AC Adaptor 6V |
| DOCK V5 | Docking Station w/ USB Connection |
| CAL-HF | Calibration Certificate |
| EMC / EMI Spectrum Analyzers | |
| NF3020 | EMC Analyzer 10Hz - 400KHz |
| NF5035 | EMC Analyzer 1Hz - 1MHz |
| NF5035 X | EMC Analyzer X (PC Ver) 1Hz - 1MHz |
| RSA5000 | Rack Mounted 1Hz - 1MHz |
| NF-XFR PRO | Armour Harded Dell Comp 1Hz - 20MHz |
| Options / Accessories | |
| NF 20MHz | 20MHz Range Ext Option (5035 Only) |
| NF 30MHz | 30MHz Range Ext Option (5035 Only) |
| 1MB-NF | 1MB Memory NF |
| 3-D GEO | 3-D Static / Geomagnetic (5035 Only) |
| 24BIT-RES | 24Bit Resolution (5035 Only) |
| RSA-EMF | RSA - EMF Software Web interface |
| RSA - PC | RSA - PC Upgrade to i5-2405s, 2.4GHz |
| ADP1 | Active Differential Probe |
| UBBv-NF-25 | External 25db Pre-amp 1Hz - 60MHz |
| UBBv-NF-35 | External 35db Pre-amp 1Hz - 30MHz |
| AA 1300 mAh | Battery - Standard |
| AA 3000 mAh | Battery - Extended (LiPO) |
| RPB | Rubber Protective Boot |
| CAL-NF | Calibration Certificate |
| Description: The NF series of analyzers include: AC charger / adaptor, aluminum carrying case, PC software and documentation. *NF5035 version includes 12Bit DDC option. | |

| Antennas - Directional / LogPer (from 389MHz) | |
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| HyperLOG 4025 | LOG Periodic 400MHz to 2.5GHz |
| HyperLOG 4040 | LOG Periodic 400MHz to 4GHz |
| HyperLOG 4060 | LOG Periodic 400MHz to 6GHz |
| HyperLOG 3080 | LOG Periodic 380MHz to 8GHz |
| HyperLOG 30100 | LOG Periodic 380MHz to 10GHz |
| HyperLOG 30180 | LOG Periodic 380MHz to 18GHz |
| HyperLOG 30250 | LOG Periodic 380MHz to 25GHz |
| HyperLOG 30350 | LOG Periodic 380MHz to 35GHz |
| Antennas - Directional / LogPer (from 389MHz) | |
| HyperLOG 7025 | LOG Periodic 700MHz to 2.5GHz |
| HyperLOG 7040 | LOG Periodic 700MHz to 4GHz |
| HyperLOG 7060 | LOG Periodic 700MHz to 6GHz |
| HyperLOG 6080 | LOG Periodic 680MHz to 8GHz |
| HyperLOG 60100 | LOG Periodic 680MHz to 10GHz |
| HyperLOG 60180 | LOG Periodic 680MHz to 18GHz |
| HyperLOG 60250 | LOG Periodic 680MHz to 25GHz |
| HyperLOG 60350 | LOG Periodic 680MHz to 35GHz |
| Antennas - EMI / EMC | |
| HyperLOG 20300 (EM | LOG Periodic 20MHz to 3GHz |
| HyperLOG 20600 (EM | LOG Periodic 20MHz to 6GHz |
| Antennas - Biconical | |
| BicoLOG 5070 | Radial Isotropic 50MHz to 700MHz |
| BicoLOG 20100* | Radial Isotropic 20MHz to 1GHz |
| BicoLOG 30100* | Radial Isotropic 30MHz to 1GHz |
| BicoLOG 20300 | Radial Isotropic 20MHz to 3GHz |
| Antennas - Isotropic | |
| OmniLOG 90200 | Radial Isotropic 700 to 2.5GHz |
| OmniLOG 70600 | Radial Isotropic 700 to 6GHz |
| OmniLOG 30800 | Radial Isotropic 300 to 8GHz |
| Antennas - Horn | |
| PowerLOG 10800 | Horn 1GHz to 8GHz |
| PowerLOG 70180 | Horn 700MHz to 18GHz |
| Antennas - Magnetic Field | |
| MDF560 | Magnetic Tracking 500KHz to 60MHz |
| MDF940 | Magnetic Tracking 9KHz to 400MHz |
| MDF930X | Magnetic Tracking 9KHz to 30MHz |
| MDF960X | Magnetic Tracking 9KHz to 60MHz |
| MDF50400X | Magnetic Tracking 500KHz to 400MHz |
| Antennas - 3D Tracking Antennas | |
| IsoLOG 3D 80 | IsoLOG 3D 80: 680MHz to 6GHz |
| IsoLOG 3D 80-UWB | IsoLOG 3D 80-UWB: 9KHz to 6GHz |
| IsoLOG 3D 160 | IsoLOG 3D 160: 680MHz to 6GHz |
| IsoLOG 3D 160-UWB | IsoLOG 3D 160-UWB: 9KHz to 6GHz |
| IsoLOG Freq Extensio | IsoLOG Frequency Ext - 20GHz to 40GHz |
| Accessories | |
| X-Pre Option** | "X" Version / 40db Pre-Amp |
| Laser-HPG | Laser Sight (High Power -Green) |
| BL Case | BicoLOG Carrying Case |
| SMA-N | SMA to N Adaptor |
| 5-M Cable | 5-Meter SMA Cable |
| 10-M Cable | 10-Meter SMA Cable |
| Description: All HyperLOG antennas include an aluminum carrying case. *For EMC "E" Versions - add \$980. Only the "X" version will allow the mounting of the Laser Sight. When ordering the "X" version the X-Pre** must be ordered at the same time (please make sure to include the cost of the X-Pre when ordering the "X" version). All IsoLOG antennas include Windows Control Software. | |

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| Probes | |
| GPS1 | GPS Logger |
| ADP1 | Active Differential Probe |
| PBS1 - 5 | Near-field PBS1 5 Probe Set |
| PBS2 - 5 PA | Near-field PBS2 5 Probe Set (w/ Amp) |
| Signal Generators | |
| BPSG4 | Signal Generator 35MHz to 4.4GHz |
| BPSG6 | Signal Generator 23.5MHz to 6GHz |
| LoWavz EMC & RF Measurement Antennas | |
| LW-3100 | H&E Field 3Hz to 100Hz |
| LW-201K | H&E Field 20Hz to 1KHz |
| LW-1K20K | H&E Field 1KHz to 20KHz |
| LW-10K150K | H&E Field 10KHz to 150KHz |
| LW-2K1M | E Field 2KHz to 1MHz |
| LW-10K60M | E Field 10KHz to 60MHz |
| Accessories | |
| SMA-N | SMA to N Adaptor |
| PGT | Pistol Grip/Mini Tripod |
| 1-M Cable | 1-Meter SMA Cable |
| 5-M Cable | 5-Meter SMA Cable |
| 10-M Cable | 10-Meter SMA Cable |

| Model # | AFJ Instruments Product Description |
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| CISPR 16-1-1 EMI RECEIVER FULLY FFT - f=9kHz÷30MHz | |
| FFT 3010 | Fully FFT CISPR 16-1-1 EMI Receiver, f=9kHz÷30MHz, Peak, Quasi Peak, CISPR_Average, RMS & CISPR_RMS Detectors, Preselectors, 200Hz & 9kHz Digital IF Filters, PC Integrated with WINDOWS 7 Embedded OS, Internal Signal Generator f=9kHz÷30MHz, LAN Interface, Certificate of Calibration including Calculation of Uncertainty and Traceability |
| CISPR 16-1-1 EMI RECEIVER FULLY FFT - f=9kHz÷300MHz | |
| FTT 3030 | Fully FFT CISPR 16-1-1 EMI Receiver, f=9kHz÷300MHz, Peak, Quasi Peak, CISPR_Average, RMS & CISPR_RMS Detectors, Preselectors, 200Hz, 9kHz & 120kHz Digital IF Filters, PC Integrated with WINDOWS 7 Embedded OS, Internal Signal Generator f=9kHz÷300MHz, LAN Interface, Certificate of Calibration including Calculation of Uncertainty and Traceability |
| CISPR 16-1-1 EMI RECEIVERS WITH IF FFT FUNCTION - f=30MHz÷1GHz/3GHz | |
| FFT 3100 | CISPR 16 - 1 - 1 EMI Receiver with IF FFT Function, f=30MHz÷1GHz, Peak, Quasi Peak, CISPR_Average, RMS & CISPR_RMS Detectors, Preselectors, 120kHz Digital IF Filter, PC Integrated with WINDOWS 7 Embedded OS, Internal Signal Generator f=30MHz÷1GHz, LAN Interface, Certificate of Calibration including Calculation of Uncertainty and Traceability |
| FFT 3300 | CISPR 16 - 1 - 1 EMI Receiver with IF FFT Function, f=30MHz÷3GHz, Peak, Quasi Peak, CISPR_Average, RMS & CISPR_RMS Detectors, Preselectors, 120kHz & 1MHz Digital IF Filters, PC Integrated with WINDOWS 7 Embedded OS, Internal Signal Generator f=30MHz÷3GHz, LAN Interface, Certificate of Calibration including Calculation of Uncertainty and Traceability |
| CISPR 16-1-1 AND CISPR 14-1 DISCONTINUOUS DISTURBANCES ANALYZER | |
| DDA55 | CISPR 16 - 1 - 1 & CISPR 14 - 1 Digital Click Analyzer, four fixed frequency modules f=150kHz, f=500kHz, f=1.4MHz & f=30MHz for simultaneous measurements, PC Integrated with WINDOWS 7 Embedded OS, Built - In Internal Calibration Pulse Generator, LAN Interface, Certificate of Calibration including Calculation of Uncertainty and Traceability. Carton 62x62x36cm, weight 19,000Kg. Schuko connector. B connector by request |
| CISPR 16-1-1 AND CISPR 14-1 DISCONTINUOUS DISTURBANCES ANALYZER TRADE UP PROGRAM | |
| DDA55 Trade in for Click Analyzer Model AFJ CL55C | Return AmpAFJ CL55C for AmpDDA55 at Ampreduced price. DDA55 Description: CISPR 16 - 1 - 1 & CISPR 14 - 1 Digital Click Analyzer, four fixed frequency modules f=150kHz, f=500kHz, f=1.4MHz & f=30MHz for simultaneous measurements, PC Integrated with WINDOWS 7 Embedded OS, Built - In Internal Calibration Pulse Generator, LAN Interface, Certificate of Calibration including Calculation of Uncertainty and Traceability. Carton 62x62x36cm, weight 19,000Kg. Schuko connector. B connector by request |
| DDA55 Trade in for Click Analyzer Model CHASE / SCHAFFNER / TESEQ DIA1512 (All Versions) | Return AmpCHASE / SCHAFFNER / TESEQ DIA1512 (All Versions) and receive AmpAFJ DDA55 at Ampreduced price. DDA55 Description: CISPR 16 - 1 - 1 & CISPR 14 - 1 Digital Click Analyzer, four fixed frequency modules f=150kHz, f=500kHz, f=1.4MHz & f=30MHz for simultaneous measurements, PC Integrated with WINDOWS 7 Embedded OS, Built - In Internal Calibration Pulse Generator, LAN Interface, Certificate of Calibration including Calculation of Uncertainty and Traceability. Carton 62x62x36cm, weight 19,000Kg. Schuko connector. B connector by request |

| OPTIONS FOR EMI SYSTEMS | |
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| PAT20M | Input protection for any brand EMI receiver, 20dB, 1W ATTENUATOR and PULSE LIMITER, N]BNC, N]N, BNC]BNC connectors configuration available, Certificate of Calibration including Calculation of Uncertainty and Traceability |
| USPA-CR | USB Interface / Parallel Interface adapter to connect AFJ ER55 EMI Receivers to any brand PC with USB interface |
| USPA-CL | USB Interface / Parallel Interface adapter to connect CL55C manufactured before July 1st, 2012 to any brand PC with USB interface |
| DENAN Option | Option for making DDA55 fully compliance to DENAN Japanese standard including frequency channel f=550kHz |
| CL55C Software | EMI Software for WINDOWS 7 OS for CL55C manufactured before June 1st, 2012. The PC shall be connected to CL55C through USB interface. USPA-CL adapter is required. |
| LISN AND ACCESSORIES FOR CONDUCTED EMISSION MEASUREMENTS | |
| LS16C/10 * | LISN, 2x16A according to CISPR 16-1-2, f=9kHz \pm 30MHz, manual & automatic phase control, built - in pulse limiter and 10dB attenuator. Including current variation counter for CISPR 14 - 1 (switching operation measurement), Certificate of Calibration including Calculation of Uncertainty and Traceability |
| LT32C/10 * | LISN, 4x32A according to CISPR 16 - 1 - 2, f=9kHz \pm 30MHz, manual & automatic phase control, built - in pulse limiter and 10dB attenuator . Including current variation counter for CISPR 14 - 1 (switching operation measurement), Certificate of Calibration including Calculation of Uncertainty and Traceability |
| LT63 | LISN, 4x63A according to CISPR 16 - 1 - 2, f=150kHz \pm 30MHz, manual phase control. Transient limiter and attenuator included (by Cranage) |
| TK 9420 | High Voltage Probe according to CISPR 16 - 1 - 2, f=9kHz \pm 30MHz, 35dB attenuation, R=1.5kOhm, C=4pF, RF < 30V (by Schwarzbeck) |
| TK 9421 | High Voltage Probe according to CISPR 16 - 1 - 2, f=150kHz \pm 30MHz, 35dB attenuation, R=1.5kOhm, C=4pF, RF < 100V (by Schwarzbeck) |
| | * Additional 5% discount if ordered with EMI Receivers kit (FFT3010 + FFT3100; FFT3010 +FFT3300) |
| ACCESSORIES FOR CISPR 14 - 1 (HOUSEHOLD APPLIANCES) | |
| MDS 21B | Absorbing Clamp for Radiated Power Emission measurements, f=30MHz \pm 1000MHz, N connector (by Lüthi) |
| SW04/32 | Switching box to be connected with CL55C and LISN (any brand) for switching operation measurements, I=32A three phase, Certificate of Calibration including Calculation of Uncertainty and Traceability |
| SW04/100 | Switching box to be connected with CL55C and LISN (any brand) for switching operation measurements, I=100A three phase, Certificate of Calibration including Calculation of Uncertainty and Traceability |
| | Other accessories are available on request |
| ACCESSORIES FOR CISPR 15 (LIGHTING APPLIANCES): Radiated Emission Measurements Antenna | |
| VVL 1530 * | Van Veen Loop Antenna for Magnetic Field Radiated Emission measurements f=9kHz \pm 30MHz, Certificate of Calibration including Calculation of Uncertainty and Traceability |
| ES 1530 | EUT support to use during measurement with any Van Veen Loop antenna (1 - 37 x 37 x h 45cm; 1 - 37 x 37 x h 98,5cm) |
| CK 1530 | Calibration kit for any Van Veen Loop Antenna, including ES 1530 |
| C0.5 1530 | Cable to connect VVL 1530 to any brand EMI Receiver, 0.5m length, N - N connectors |
| C1.5 1530 | Cable to connect VVL 1530 to any brand EMI Receiver, 1.5m length, N - N connectors |
| C5.0 1530 | Cable to connect VVL 1530 to any brand EMI Receiver, 5m length, N - N connectors |
| C10.0 1530 | Cable to connect VVL 1530 to any brand EMI Receiver, 10m length, N - N connectors |
| C15.0 1530 | Cable to connect VVL 1530 to any brand EMI Receiver, 15m length, N - N connectors |
| | * Additional 5% discount if ordered with EMI Receivers kit (FFT3010 + FFT3100; FFT3010 +FFT3300) |

| ACCESSORIES FOR CISPR 15 (LIGHTING APPLIANCES): Radiated Emission Measurements CDN | |
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| M2/B | CDN for testing according to CISPR 15 Ed. 6 / EN 55015 Ed. 6, f=150kHz +300MHz, 2 power lines (L+N), Banana connectors. |
| M3/B | CDN for testing according to CISPR 15 Ed. 6 / EN 55015 Ed. 6, f=150kHz +300MHz, 3 power lines (L+N+PE), Banana connectors. |
| M2+M3/B | CDN for testing according to CISPR 15 Ed. 6 / EN 55015 Ed. 6, f=150kHz +300MHz, power lines, switch able between 2 lines (L+N)(M2) or 3 lines (L+N+PE)(M3), Banana connectors. |
| AF2/B | CDN for testing according to CISPR 15 Ed. 6 / EN 55015 Ed. 6, f=150kHz +300MHz, 2 unscreened and unbalanced lines, Banana connectors. |
| AF3/B | CDN for testing according to CISPR 15 Ed. 6 / EN 55015 Ed. 6, f=150kHz +300MHz, 3 unscreened and unbalanced lines, Banana connectors. |
| AF4/B | CDN for testing according to CISPR 15 Ed. 6 / EN 55015 Ed. 6, f=150kHz +300MHz, 4 unscreened and unbalanced lines, Banana connectors. |
| ACCESSORIES FOR CISPR 15 (LIGHTING APPLIANCES): Insertion Loss Dummy Lamps | |
| Linear Type | 38 mm Diameter, 58 W, (1500 mm) |
| Linear Type | 38 mm Diameter, 36 W, (1200 mm) |
| Linear Type | 38 mm Diameter, 30 W, (895 mm) |
| Linear Type | 38 mm Diameter, 18 W, (590 mm) |
| Linear Type | 25 mm Diameter, 58 W, (1500 mm) |
| Linear Type | 25 mm Diameter, 36 W, (1200 mm) |
| Linear Type | 25 mm Diameter, 36 W, (970 mm) |
| Linear Type | 25 mm Diameter, 30W, (895 mm) |
| Linear Type | 25 mm Diameter, 18 W, (590 mm) |
| U Type | 38 mm Diameter, 65 W, (765 mm) |
| U Type | 38 mm Diameter, 40 W, (607 mm) |
| U Type | 38 mm Diameter, 20 W, (310 mm) |
| Circular Type | Circular Type 38 mm Diameter, 40 W, (413 mm) |
| Circular Type | 38 mm Diameter, 32 W, (311 mm) |
| Circular Type | 38 mm Diameter, 22 W, (216 mm) |
| 15mm Fluorescent | 15mm Fluorescent 15 mm Diameter, 13 W, (517 mm) |
| 15mm Fluorescent | 15 mm Diameter, 8 W, (288 mm) |
| 15mm Fluorescent | 15 mm Diameter, 6 W, (212 mm) |
| 15mm Fluorescent | 15 mm Diameter, 4 W, (136 mm) |
| 15mm Fluorescent | 15 mm Diameter, Single Capped Socket 2 G 7, 11 W, (215 mm) |
| 15mm Fluorescent | 15 mm Diameter, Single Capped Socket 2 G 7, 9 W, (145 mm) |
| 15mm Fluorescent | 15 mm Diameter, Single Capped Socket 2 G 7, 7 W, (115 mm) |
| 15mm Fluorescent | 15 mm Diameter, Single Capped Socket 2 G 7, 5 W, (85 mm) |
| 12mm Florescent | 12mm Fluorescent 12mm Single Capped Twin Tube Socket G 23, 11W, (214mm) |
| 12mm Florescent | 12mm single capped Twin Tube Socket G 23, 9W, (144mm) |
| 12mm Florescent | 12mm single capped Twin Tube Socket G 23, 7W (114 mm) |
| 12mm Florescent | 12mm single capped Twin Tube Socket G 23, 5W (85mm) |
| 12mm Florescent | 12mm single capped Quad Tube Socket G 24, 26W (149 mm) |
| 12mm Florescent | 12mm single capped Quad Tube Socket G 24, 18W (130 mm) |
| 12mm Florescent | 12mm single capped Quad Tube Socket G 24, 13W (115 mm) |
| 12mm Florescent | 12mm single capped Quad Tube Socket G 24, 10W (87 mm) |
| ACCESSORIES FOR CISPR 15 (LIGHTING APPLIANCES): Insertion Loss Balance-to-unbalance Transformer | |
| BUT | Balance-to-unbalance Transformer, Built into a nickel plated housing (55x55x100mm) |
| ACCESSORIES FOR CISPR 15 (LIGHTING APPLIANCES): Conical Metal Housing | |
| Socket E 27 | Conical Metal Housing for self - ballasted fluorescent Lamps Socket E 27 |
| Socket E 14 | Conical Metal Housing for self - ballasted fluorescent Lamps Socket E 14 |
| Socket Bajonet | Conical Metal Housing for self - ballasted fluorescent Lamp socket bajonet |
| ACCESSORIES FOR CISPR 15 (LIGHTING APPLIANCES): IEC 62493 VDH Test Head | |
| VDH 30 * | "Van der Hoofden" Test Head for Human Exposure to Electromagnetic Fields Measurement according to IEC 62493 standard, f=20kHz+10MHz, Protection Network, Wooden Tripod, Calculation Software, Certificate of Calibration including Calculation of Uncertainty and Traceability |
| | * Additional 5% discount if ordered with EMI Receivers kit (FFT3010 + FFT3100; FFT3010 +FFT3300) |

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| | Calibration report include "Calculation of uncertainty using ISO model" and "Traceability" |
| | All transport costs are Not Included |
| | Third - party Calibration Service is available |

| Dana Power Supplies | | | |
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| Linear AC / DC Power Supplies | | | |
| Series | V Output | I Output | Power |
| DA | 0 ÷ 800 Vdc | 3,000 Amps | 40,000 Watts |
| BIPOLAR 2 QUADRANTS | | | |
| Series | V Output | I Output | Power |
| D2A | 0 ÷ 500 Vdc | ± 1,000 Amps | 40,000 Watts |
| BIPOLAR 2 OPPOSITE QUADRANTS | | | |
| Series | V Output | I Output | Power |
| D2AC | 800 Vdc | ± 2,000 Amps | 40,000 Watts |
| BIPOLAR 4 QUADRANTS | | | |
| Series | V Output | I Output | Power |
| D4A | ± 400 Vdc | ± 1,000 Amps | 40,000 Watts |
| D4AA | -15 ÷ + 400 Vdc | ± 1,000 Amps | 40,000 Watts |
| D4AC SERIES (Current Mode) BIPOlar 4 QUADRANTS | | | |
| LINEAR AMPLIFIER | | | |
| DLA | 0 ÷ + 190 Vdc | ± 500 Amps | 10,000 Watts |
| LINEAR AC-DC MULT OUTPUT POWER SUPPLIES | | | |
| DP | 0 ÷ + 240 Vdc | 20 Amps | 400 Watts |
| START ENGINE POWER SUPPLIES | | | |
| DAS | 14 Vdc | 700 Amps | 10,000 Watts |
| LINEAR CONTINUOUS CURRENT GENERATORS | | | |
| Series | V Output | I Output | Power |
| DAC | 0 ÷ 800 Vdc | 3000 Amps | 40,000 Watts |
| THYRISTORS REGULATION AC-DC POWER SUPPLIES | | | |
| Series | V Output | I Output | Power |
| DE | 0 ÷ 800 Vdc | 2000 Amps | 30,000 Watts |
| DOUBLE REGULATION POWER SUPPLIES | | | |
| Series | V Output | I Output | Power |
| DO | 0 ÷ 800 Vdc | 3000 Amps | 40,000 Watts |
| DOUBLE REGULATION 2 QUADRANTS POWER SUPPLIES | | | |
| Series | V Output | I Output | Power |
| D2O | 0 ÷ 800 Vdc | ± 3000 Amps | 40,000 Watts |
| D2OC | ± 800 Vdc | ± 3000 Amps | 40,000 Watts |
| DOUBLE REGULATION CONTINUOUS CURRENT GENERATORS | | | |
| Series | V Output | I Output | Power |
| DOC | 0 ÷ 800 Vdc | 3000 Amps | 40,000 Watts |
| DSO SERIES ELECTRONIC LOAD | | | |
| Series | V Output | I Output | Power |
| DSO | 1.5 ÷ 800 Vdc | 250 Amps | 30,000 Watts |
| DOC | 0 ÷ 800 Vdc | 250 Amps | 30,000 Watts |
| AC/DC POWER SUPPLIES | | | |
| Series | V Output | Frequency | Power |
| MPS | 0 ÷ 270 Vax/Vdc | DC/10 kHz | 3,600 Watt - mono 9,000 Watt - 3-ph |
| OTHER PRODUCTS | | | |
| DMS-DBS | Electronic Switches | ± 320 V - 300 A | |
| PS-PW-PS5 | Digital Interfaces | | |

| Model # | EMC Test Design, LLC Product Description | |
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| Isotropic Ultra Broadband Electric Field Probes | | |
| PI-01 | Isotropic Broadband Electric Field Probe: PI-01, Frequency Range: 200KHz-3GHz Field Strength Range: 0.2–600 V/m Compatible with Meters: RFP-04, RFP-05M | |
| PI-01C Selective | Selective Electric Probe PI-01C. Frequency Range: 500 - 3000MHz Field Strength Range: 0.4 – 500 V/m Meter: RFP-04, RFP-05M | |
| PI-01E | Isotropic Broadband Electric Field Probe: PI-01E , Frequency Range: 100KHz-6GHz Field Strength Range: 0.3–600 V/m Compatible with Meters: RFP-04, RFP-05M | |
| PI-01LF | Electric Probe: PI-01LF, Frequency Range: 10KHz-3GHz Field Strength Range: 0.2* – 600 V/m (*)Depends on frequency, see the data sheet. Meter: RFP-04, RFP-05M | |
| PI-01V Selective | Selective Probe: PI-01V Frequency Range: 900-1900MHz. Dual GSM band. Field Strength Range: 0.4 – 400 V/m Meter: RFP-04, RFP-05M | |
| PI-03 | Isotropic Broadband Electric Field Probe: PI-03 , Frequency Range: 3MHz-18GHz Field Strength Range: 0.8–800 V/m Compatible with Meters: RFP-04, RFP-05M | |
| PI-03P Pulsed Electric | Isotropic Broadband Electric Field Probe: PI-03P Pulsed Electric Field, Frequency Range: 100MHz-18GHz Field Strength Range: 70-1400 V/m. RF pulse width > 1 us. Compatible with Meter: RFP-05 | |
| PI-05 | Isotropic Ultra Broadband Electric Field Probe: PI-05, Frequency Range: 1MHz-40GHz Field Strength Range: 2-1000 V/m. Compatible with Meter: RFP-05 | |
| PI-H1 Magnetic Field | Magnetic Probe: PI-H1 Magnetic Field, Frequency Range: 500KHz-50MHz Field Strength Range: 0.05 – 20 A/m Meter: RFP-05M | |
| PI-SH ICNIRP or FCC | Shaped Electric Probe. Frequency Range: 300KHz-18GHz Compatible with Meter: RFP-05m | |
| Note 1: | Kits with broadband probes PI-01, PI-01LF, PI-01E, PI-03 and PI-05 come with Field Gauge FG-01 | |
| Note 2: | The price of the probes includes calibration. | |
| Note 3: | The price of RFP-05 meter includes: meter in hard case with accessories (AC/DC charger, table tripod, mounting clip, meter-probe SMA cable, SD card) and Users Manual. | |
| Meters Selection: Smart Field meter® Digital and Smart Field meter® | | |
| RFP-04 | Smart Field meter® Model: RFP-04, Frequency Range: 0.2-800 V/m (depending on the probe used) Field Strength Range: Calibrated with one probe selected at purchase. Supports most of electric probes (see the table above). Options: RS232, USB and Fiber Optic isolated data readout modems. | |
| RFP-05M | Smart Field meter® Digital Model: RFP-05(M), Frequency Range: 0.2-3000 V/m 0.01-100A/m (depending on the probe used) Field Strength Range: Calibrated with up to four probes at the same time. Supports all present and future probes. Options: bidirectional RS232, USB and Fiber Optic isolated modems, GPS and IR Remote. | |
| Main PC Link Accessories | | |
| IM-MU | Insulated USB Modem. Allows charging and bidirectional communication between PC and meter RFP - 05M. | |
| FOLK-02 | Fiber Optic Link Kit. Includes two bidirectional modems IM-MF, IM-PF and 10-meter (30') bi-line fiber optic cable. Makes seamless fiber optic connection of RFP-05M meter with PC for data streaming. Eliminates all wires. | |
| Optional Cable for FOLK | #1. Optional cable -20 m. | |
| Optional Cable for FOLK | #2. Optional cable 50 m. | |
| ODLK-01 | Optically Decoupled Link Kit. Includes Data Cable and TTL/RS232 bidirectional converter with optical Isolator. Serial isolated RS232 output. Allows bidirectional communication between PC and meter RFP-05. | |
| FOLK-01 | Fiber Optic Link Kit. Includes two bidirectional RS232/Optic converters and 10-meter (30') bi-line fiber optic cable. Makes seamless fiber optic connection of RFP-05 meter with PC for data streaming. Requires ODLK-01. | |
| Optional Cable: 20M | #1. Optional cable -20 m. | |
| Optional Cable: 50m | #2. Optional cable 50 m. | |
| Isotropic Omnifield Antennas® | | |
| OFA-S | Isotropic Omnifield Antenna® OFA-S/SE - Active Broadband Isotropic Antenna, Frequency Range: 30MHz-3GHz Field Strength Range: 10mV/m-300V/m | |

| | | |
|--|---|--|
| OFA-SE | Isotropic Omnidirectional Antenna® OFA-S/SE - Active Broadband Isotropic Antenna, Frequency Range: 30MHz-3GHz Field Strength Range: 1mV/m-30V/m. | |
| Field Analyzer - SFA-S Kit | | |
| SFA-S | SFA-S Kit includes: OFA-S/SE Broadband Isotropic Antenna and SA-S Spectrum Analyzer Spectrum Analyzer Details: Frequency Range: 1Hz-4.2GHz Low noise amplifier available above 500KHz Wide dynamic range: -151 dBm to +10 dBm Resolution bandwidths (RBW) of 0.1 Hz to 250KHz and 5MHz Includes a High Dynamic Range Measuring Receiver 0.25 dB relative accuracy 0 dBm to -125 dBm, 150KHz to 1GHz 0 dBm to -115 dBm, 1GHz to 4.4GHz Adjustable digital audio filters Accurate AM and FM measurements | |
| Calibration | | |
| PI-01 (All Variants and PI-H1 Recalibration | All EMC Test Products should be recalibrated in one or two years intervals. | |
| PI-03 Recalibration | All EMC Test Products should be recalibrated in one or two years intervals. | |
| PI-05 Recalibration | All EMC Test Products should be recalibrated in one or two years intervals. | |
| Smart Field meter® Digital Product Kits | | |
| Kit 3D Meter: RFP-05 Probe: PI-03 Field Gauge | Meter, Probe Kit 3D Meter: RFP-05 Probe: PI-03 Field Gauge, Frequency Range: 3MHz - 18GHz Correction factors at frequencies (MHz): 3, 10, 100, 1000, 1200, 1900, 2400, 3000, 3700, 5700, 8000, 10500, 12500, 13000, 13500, 14000, 15000, 16000, 17000, 18000. Field Strength Range: 0.8 – 800 V/m | Kit 3D Meter: RFP-05, Probe: PI-03, Field Gauge |
| Kit 3DP Meter: RFP-05 Probe: PI-03P NEW! | Meter, Probe Kit 3DP Meter: RFP-05 Probe: PI-03P NEW!, Frequency Range: 100MHz - 18GHz Correction factors at frequencies (MHz): 100, 200, 400, 800, 1000, 1200, 1900, 2400, 3000, 3700, 5700, 8000, 10500, 12500, 13000, 13500, 14000, 15000, 16000, 17000, 18000. Field Strength Range: 70 – 1400 V/m | Kit 3DP Meter: RFP-05, Probe: PI-03P NEW! |
| Kit 1D Meter: RFP-05 Probe: PI-01 Field Gauge | Meter, Probe Kit 1D Meter: RFP-05 Probe: PI-01 Field Gauge, Frequency Range: 0.2MHz - 3GHz Correction factors at frequencies (MHz): 0.2, 0.5, 1, 10, 100, 1000, 1900, 2400, 3000. Field Strength Range: 0.2 – 600 V/m | Kit 1D Meter: RFP-05, Probe: PI-01, Field Gauge |
| Kit 1DE Meter: RFP-05 Probe: PI-01E Field Gauge | Meter, Probe Kit 1DE Meter: RFP-05 Probe: PI-01E Field Gauge, Frequency Range: 0.1MHz - 6GHz Correction factors at frequencies (MHz): 0.1, 0.2, 0.5, 1, 10, 100, 1000, 1200, 1900, 2400, 3000, 3700, 5700, 6000. Field Strength Range: 0.3 – 600 V/m | Kit 1DE Meter: RFP-05, Probe: PI-01E Field Gauge |
| Kit 4D Meter: RFP-05 Probe: PI-01V | Meter, Probe Kit 4D Meter: RFP-05 Probe: PI-01V, Frequency Range: 900-1900MHz. Dual GSM band. Selective frequency range. Correction factors for the frequency range (MHz): 700-2100. Field Strength Range: 0.4 – 400 V/m | Kit 4D Meter: RFP-05, Probe: PI-01V |
| Kit 1DC Meter: RFP-05 Probe: PI-01V | Meter, Probe Kit 1DC Meter: RFP-05 Probe: PI-01V, Frequency Range: 500-3000MHz. Selective frequency range. Correction factors for the frequency range (MHz): 200-3000. Field Strength Range: 0.4 – 500 V/m | Kit 1DC Meter: RFP-05, Probe: PI-01V |
| Kit HD Meter: RFP-05 Probe: PI-H1 MAGNETIC FIELD | Meter, Probe Kit HD Meter: RFP-05 Probe: PI-H1 MAGNETIC FIELD, Frequency Range: 500KHz - 50MHz Correction factors at frequencies (MHz): 0.5, 0.7, 1, 2, 4, 6, 7, 8, 13.56, 27.1, 49. Field Strength Range: 0.05 – 20 A/m | Kit HD Meter: RFP-05, Probe: PI-H1, MAGNETIC FIELD |
| <u>Notes:</u> | 1. Every Kit includes: meter in hard case with accessories (AC/DC charger, table tripod, mounting clip, meter-probe SMA cable, SD card) and Users Manual with Calibration Certificate. Field Gauge is included with Kit 1D, Kit 2D, Kit 3D. | |

| Accessories | | |
|------------------------------------|---|--|
| Cable: Meter- Probe | SMA/SMA 4-6 ft. Standard. | |
| Data Cable | Cable 2.5 mm plugs on both ends, length 3-6 ft. Standard. | |
| FC-01 | Portable frequency counter with frequency range 30MHz-2.8GHz. Measures pulsed GSM and cell phone signals with RF pulse duration longer than 250 usec. | |
| FG-01 Field Gauge | The FG-01 Field Gauge allows verification of all Smart Field meter® Digital broadband probes in seconds. Operates with PI-01, PI-02, PI-03 probes. Standard. | |
| FOLK-01 | Fiber Optic Link Kit. Includes two bidirectional RS232/Optic converters and 10-meter (30') bi-line fiber optic cable. Makes seamless fiber optic connection of RFP-05 meter with PC for data streaming. Requires ODLK-01. #1. Optional cable -20 m. #2. Optional cable 50 m. | |
| FOLK-01 with Optional | #1. Optional cable -20 m. | |
| FOLK-01 with Optional | #2. Optional cable 50 m. | |
| FOLK-02 | Fiber Optic Link Kit. Includes two bidirectional modems IMMF, IM-PF and 10-meter (30') bi-line fiber optic cable. Makes seamless fiber optic connection of RFP-05M meter with PC for data streaming. Eliminates all wires. #1. Optional cable -20 m. #2. Optional cable 50 m. | |
| FOLK-02 with Optional 20m cable | #1. Optional cable -20 m. | |
| FOLK-02 with Optional 50m cable | #2. Optional cable 50 m. | |
| GPS-R | GPS Position Receiver Connects to RFP-05. In order to visualize locations on map requires ODLK-01, RS232/USB adapter and mapping | |
| IM-MU | Insulated USB Modem Allows charging and bidirectional communication between PC and meter RFP -05M. | |
| IR Remote | IR remote controls Smart Field meter® Digital from the distance. Optional. | |
| ODLK-01 | Optically Decoupled Link Kit. Includes Data Cable and TTL/RS232 bidirectional converter with optical Isolator. Serial isolated RS232 output. Allows bidirectional communication between PC and meter RFP-05. | |
| RS232-USB Adapter | Adapter to convert serial RS232 signal to USB for computers without RS232 port. For FOLK-01. | |
| Table Tripod | 6" Nonmetal Tripod Standard. | |

| Model # | EMCIS Description |
|------------------------------------|---|
| EMI Analyzers and Options | |
| EA-2100 | EMI Analyzer with standard accessories |
| EA-300 | EMI Analyzer with standard accessories |
| EMC Analyzer Accessories | |
| BNC-MM-140 | BNC cable, 1400mm L |
| BNC-MM-160 | BNC cable, 1600mm L |
| BNC-MM-280 | BNC cable, 2800mm L |
| Filter Analyzers | |
| FA-300 | Filter Analyzer w/standard accessories |
| FA-2100 | Filter Analyzer w/standard accessories |
| Filter Analyzer Accessories | |
| FA-001 | Filter Test Table |
| Impedance Modules | |
| IMP-16A | Impedance Module. Standard Accessory with EA-300. |
| IMP-50A | 50A. 1ph |
| IMP4-50A | 50A. 3ph |
| IMP4-100A | 100A. 3ph |
| Filter Analyzer Accessories | |
| BNC-MM-140 | BNC cable, 1400mm L |
| BNC-MM-159 | BNC cable, 1599mm L |
| BNC-MM-160 | BNC cable, 1600mm L |
| LISN | |
| LN2-16N | LISN: 2P, 16A, 9KHz-30MHz |
| LN2-50N | LISN: 2P, 50A, 9KHz-30MHz |
| LN2-100A | LISN: 1ph, 2P, 100A |
| LN1-100C | LISN: 1ph, 2P, 100A |
| LN4-50N | LISN: 3ph, 4P, 50A |
| LN4-100A | LISN: 3ph, 4P, 100A |
| LN2-100T | LISN: 1ph, 2P, 100A |
| Power Line Filter | |
| LF1-016A | Power Line Filter: 16A, 1Ph(std) |
| Comb Reference Source | |
| CRS-1530 | Comb Reference Source |
| Mini Shield Room | |
| MR-01 | Mini Shield Room: 16A LISN included |
| DC Bias Sources | |
| DBS-50D | DC Bias Source: 50A, 10mA, steps |
| Adapters and Cables | |
| DBS-03CB | Adaptor |
| SMA-MM-400 | Cable |
| DBS-03CL | Adaptor |
| DBS-03EB | Adaptor |
| N20-MM-600 | Cable |
| DBS-03EL | Adaptor |
| DBS-003A | Adaptor |
| BNC-BNC-1000 | Cable |
| Consumable Items | |
| DBS-Terminal | |
| DBS-T01 | |
| DBS-SMD | |
| DBS-01 | |

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|----------------------------------|--|
| Filter Design Kits | |
| FTK-05 | Filter Design Kit: Without SMPS |
| Filter Design Kits | |
| Capacitor (pc) | Accessories: |
| Coil (pc) | Accessories: 5A |
| FTK Accessory Kit | 18 of Coil 21 of Capacitors (Y-cap and X-cap) 2 of Short Bar 1 strip (to bring the box) Inspection report (graph) of each components, Coil, Y-Cap/X-Cap. |
| EMI Filters | |
| AF Series of EMI Filters | |
| AF2-E001DB | |
| AF2-M005A | |
| AF2-M005A | |
| AF2-E001DB | |
| AF2-E003D | |
| AF2-E005D | DC EMI Filter. Rated Voltage: 28V DC, Rated Current: 5A, Lines: 2, Attenuation Characteristics (MIL-STD-220B): 10KHz-70dB 100KHz~3GHZ:100dB |
| AF2-E005D | |
| AF2-L005DC | |
| AF2-U005A | |
| AF2-U005B | |
| AF2-U005A | |
| AF2-U005B | |
| AF2-M005A | |
| AF2-U005A | |
| AF2-U005B | |
| AF2-U005A | |
| DT Series of EMI Filters | |
| DT2-M010A | |
| DT3-M040B | |
| IT Series of EMI Filters | |
| IT2-M015A | |
| JTS Series of EMI Filters | |
| JT3-M040BC | |
| JT3-M040BC | |
| JT3-M020BC | |
| JT3-S100B | |
| JT3-M070D | |
| JT3-M025CA | |
| JT3-M060B | |
| JT3-M100B | |
| JT3-M053A | |
| JT3-M020C | |
| JT3-M030B | |
| JT3-M040BC | |
| JT3-M050C | |
| JT3-M054BC | |
| JT3-M060B | |
| JT3-M060D | |
| JT3-P030C | |
| LT Series of EMI Filters | |
| LT3-P200A | |
| LT3-P250A | |

| Model # | Frankonia Product Description |
|--|---|
| Frankonia EMV - RF-Power Amplifiers | |
| RF-Power Amplifiers: 10 kHz - 300 MHz Frequency Range | |
| FLL-25 | RF-Power-Amplifier Frequency-range: 100kHz to 250MHz Output Power: 25 Watt |
| FLL-25A | RF-Power Amplifier Frequency-range: 10kHz to 230MHz Output Power: 25 Watt |
| FLL-75 | RF-Power Amplifier Frequency-range: 100kHz to 300MHz Output Power: 75 Watt |
| FLL-75A | RF-Power Amplifier Frequency-range: 150kHz to 230MHz Output Power: 75 Watt |
| FLL-100A | RF-Power Amplifier Frequency-range: 10kHz to 250MHz Output-Power: 100W |
| VLL-140 | RF-Power Amplifier Frequency-range: 10kHz to 250MHz Output Power: 140 Watt |
| VLL-300 | RF-Power Amplifier Frequency-range: 10kHz to 250MHz Output Power: 300 Watt |
| VLL-500L | RF-Power Amplifier Frequency-range: 100kHz to 200MHz Output Power: 500 Watt |
| VLL-600 | RF-Power Amplifier Frequency-range: 10kHz to 250MHz Output Power: 600 Watt |
| VLL-1000L | RF-Power Amplifier Frequency-range: 100kHz to 200MHz Output Power: 1000 Watt |
| VLL-1300 | RF-Power Amplifier Frequency-range: 10kHz to 250MHz Output Power: 1300 Watt |
| VLL-2000L | RF-Power Amplifier Frequency-range: 100kHz to 200MHz Output Power: 2000 Watt |
| VLL-2500 | RF-Power Amplifier Frequency-range: 10kHz to 250MHz Output Power: 2500 Watt |
| VLL-3500L | RF-Power Amplifier Frequency-range: 100kHz to 200MHz Output Power: 3500 Watt |
| VLL-5000 | RF-Power Amplifier Frequency-range: 10kHz to 250MHz Output Power: 5000 Watt |
| VLL-7000L | RF-Power Amplifier Frequency-range: 100kHz to 200MHz Output Power: 7000 Watt |
| VLL-10000 | RF-Power Amplifier Frequency-range: 10kHz to 250MHz Output Power: 10000 Watt |
| VLL-12000L | RF-Power Amplifier Frequency-range: 100kHz to 200MHz Output Power: 12000 Watt |

| RF-Power Amplifiers: 10 kHz - 400 MHz Frequency Range | |
|---|---|
| VLC-60 | RF-Power Amplifier Frequency-range: 10kHz to 400MHz Output Power: 60 Watt |
| FLC-75 | RF-Power Amplifier Frequency range: 100kHz to 400MHz Output Power: 75 Watt |
| VLC-110 | RF-Power Amplifier Frequency-range: 10kHz to 400MHz Output Power: 110 Watt |
| FLC-180 | RF-Power Amplifier Frequency range: 1MHz to 400MHz Output Power: 180 Watt |
| VLC-220 | RF-Power Amplifier Frequency-range: 10kHz to 400MHz Output Power: 220 Watt |
| VLC-400 | RF-Power Amplifier Frequency-range: 10kHz to 400MHz Output Power: 400 Watt |
| VLC-600 | RF-Power Amplifier Frequency-range: 10kHz to 400MHz Output Power: 600 Watt |
| VLC-1200 | RF-Power Amplifier Frequency-range: 10kHz to 400MHz Output Power: 1200 Watt |
| VLC-2000 | RF-Power Amplifier Frequency-range: 10kHz to 400MHz Output Power: 2000 Watt |
| RF-Power Amplifiers: 10 kHz - 1000 MHz Frequency Range | |
| VLLH-25 | RF-Power Amplifier Frequency-range: 10kHz to 1000MHz Output Power: 25 Watt |
| VLLH-70 | RF-Power Amplifier Frequency-range: 10kHz to 1000MHz Output Power: 70 Watt |
| VLLH-150 | RF-Power Amplifier Frequency-range: 10kHz to 1000MHz Output Power: 150 Watt |
| VLLH-260 | RF-Power Amplifier Frequency-range: 10kHz to 1000MHz Output Power: 260 Watt |
| VLLH-800 | RF-Power Amplifier Frequency-range: 10kHz to 1000MHz Output Power: 800 Watt |

| RF-Power Amplifiers: 1 MHz - 1000 MHz Frequency Range | |
|--|---|
| FLH-4A | RF-Power Amplifier Frequency-range: 1MHz to 1000MHz Output Power: 4 Watt |
| FLH-50A | RF-Power Amplifier Frequency-range: 1MHz to 1000MHz Output Power: 50 Watt |
| FLH-100A | RF-Power Amplifier Frequency-range: 1MHz - 1000Mhz Output Power: 100 Watts |
| FLH-100C | RF-Power Amplifier Frequency-range: 20MHz - 500MHz Power-output: 100W |
| FLH-200C | RF-Power Amplifier Type: FLH-200C Frequency-range: 20MHz - 500MHz Power-output: 200W |
| RF-Power Amplifiers: 20 MHz - 1GHz Frequency Range | |
| FLH-20B | RF-Power Amplifier Frequency-range: 20MHz - 1GHz Output Power: 20 Watts |
| FLH-70B | RF-Power Amplifier Frequency-range: 20MHz - 1GHz Output Power: 70 Watts |
| VLH-90B | RF-Power Amplifier Frequency-range: 20MHz to 1GHz Output Power: 90 Watt |
| VLH-160B | RF-Power Amplifier Frequency-range: 20MHz to 1GHz Output Power: 160 Watt |
| FLH-200B | RF-Power Amplifier Frequency-range: 20MHz - 1GHz Power-output: 200W |
| VLH-320B | RF-Power Amplifier Frequency-range: 20MHz to 1GHz Output Power: 320 Watt |
| VLH-600B | RF-Power Amplifier Frequency-range: 20MHz to 1GHz Output Power: 600 Watt |
| RF-Power Amplifiers: 80 MHz - 1GHz Frequency Range | |
| VLH-100B1 | RF-Power Amplifier Frequency range: 80MHz to 1000MHz Output Power: 100 Watt |
| FLH-200B1 | RF-Power Amplifier Frequency-range: 80MHz - 1000MHz Power-output: 200W |
| VLH-400B1 | RF-Power Amplifier Frequency-range: 80MHz to 1000MHz Output Power: 400 Watt |
| FLH-500B1 | RF-Power Amplifier Frequency-range: 80MHz - 1000MHz Output Power: 500W |
| VLH-700B1 | RF-Power Amplifier Frequency-range: 80MHz to 1000MHz Output Power: 700 Watt |
| VLH-1200B1 | RF-Power Amplifier Frequency-range: 80MHz to 1000MHz Output Power: 1200 Watt |
| VLH-1400B1 | RF-Power Amplifier Frequency-range: 80MHz to 1000MHz Output Power: 1400 Watt |

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| VLH-1700B1 | RF-Power Amplifier Frequency-range: 80MHz to 1000MHz Output Power: 1700 Watt |
| VLH-2000B1 | RF-Power Amplifier Frequency-range: 80MHz to 1000MHz Output Power: 2000 Watt |
| VLH-3500B1 | RF-Power Amplifier Frequency-range: 80MHz to 1000MHz Output Power: 3000 Watt |
| 5225 | RF-Power Amplifier Frequency-range: 80MHz to 1000MHz Output Power: 200 Watt |
| 5273 | RF-Power Amplifier Frequency-range: 1GHz to 3GHz Max. Output: 70 Watt |
| RF-Power Amplifiers: 0.8GHz - 2GHz Frequency Range | |
| FLG-7A | RF-Power Amplifier Frequency Range: 0.8GHz - 2GHz Maximum Output: 7W |
| FLG-12A | RF-Power Amplifier Frequency Range: 0.8GHz - 2GHz Maximum Output: 12W |
| FLG-25A | RF-Power Amplifier Frequency Range: 0.8GHz - 2GHz Maximum Output: 25W |
| FLG-50A | RF-Power Amplifier Frequency Range: 0.8GHz - 2GHz Maximum Output: 50W |
| FLG-120A | RF-Power Amplifier Frequency Range: 0.8GHz - 2GHz Maximum Output: 120W |
| FLG-200A | RF-Power Amplifier Frequency Range: 0.8GHz - 2GHz Maximum Output: 200W |
| FLG-300A | RF-Power Amplifier Frequency Range: 0.8GHz - 2GHz Maximum Output: 300W |
| FLG-500A | RF-Power Amplifier Frequency Range: 0.8GHz - 2GHz Maximum Output: 500W |

| RF-Power Amplifiers: 0.8GHz - 3.6GHz Frequency Range | |
|---|--|
| FLG-10C | RF-Power Amplifier Frequency Range: 1GHz - 3GHz Maximum Output: 10W |
| FLG-30C | RF-Power Amplifier Frequency Range: 1GHz - 3GHz Maximum Output: 30W |
| VLG-40CA | RF-Power Amplifier Frequency range: 0.8GHz to 3.2GHz Output Power: 40 Watt |
| VLG-70CA | RF-Power Amplifier Frequency range: 0.8GHz to 3.2GHz Output Power: 70 Watt |
| VLG-120CA | RF-Power Amplifier Frequency-range: 0.8GHz to 3.2GHz Output Power: 120 Watt |
| VLG-220CA | RF-Power Amplifier Frequency-range: 0.8GHz to 3.2GHz Output Power: 220 Watt |
| VLG-450CA | RF-Power Amplifier Frequency-range: 0.8GHz to 3.2GHz Output Power: 450 Watt |
| VLG-1000CA | RF-Power Amplifier Frequency-range: 0.8GHz to 3.2GHz Output Power: 1000 Watt |
| FLG-9F | RF-Power Amplifier Frequency Range: 2GHz - 6GHz Maximum Output: 9W |
| FLG-15F | RF-Power Amplifier Frequency Range: 2GHz - 6GHz Maximum Output: 15W |
| FLG-30F | RF-Power Amplifier Frequency Range: 2GHz - 6GHz Maximum Output: 30W |
| FLG-50F | RF-Power Amplifier Frequency Range: 2GHz - 6GHz Maximum Output: 50W |
| FLG-100F | RF-Power Amplifier Frequency Range: 2GHz - 6GHz Maximum Output: 100W |
| RF-Power Amplifiers: 2GHz - 6GHz Frequency Range | |
| VLG-15F | RF-Power Amplifier Frequency range: 2GHz to 6GHz Output Power: 15 Watt |
| VLG-30F | RF-Power Amplifier Frequency range: 2GHz to 6GHz Output Power: 30 Watt |
| VLG-55F | RF-Power Amplifier Frequency range: 2GHz to 6GHz Output Power: 55 Watt |
| VLG-100F | RF-Power Amplifier Frequency-range: 2GHz to 6GHz Output Power: 100 Watt |
| VLG-180F | RF-Power Amplifier Frequency-range: 2GHz to 6GHz Output Power: 180 Watt |
| RF-Power Amplifiers: 0.7GHz - 6GHz Frequency Range | |
| FLG-15G | RF-Power Amplifier Frequency Range: 0,7GHz - 6GHz Power output:: 15W |

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| FLG-25G | RF-Power Amplifier Frequency Range: 0,7GHz - 6GHz Power output:: 25W |
| FLG-50G | RF-Power Amplifier Frequency Range: 0,7GHz - 6GHz Power output:: 50W |
| FLG-100G | RF-Power Amplifier Frequency Range: 0,7GHz - 6GHz Power output:: 100W |
| FLG-200G | RF-Power Amplifier Frequency Range: 0,7GHz - 6GHz Power output:: 200W |
| RF-Power Amplifiers: 0.8GHz - 6GHz | |
| VLG-40/15G | RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 40/15 Watt |
| VLG-40/30G | RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 40/30 Watt |
| VLG-70/15G | RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 70/15 Watt |
| VLG-70/30G | RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 70/30 Watt |
| VLG-70/55G | RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 70/55 Watt |
| VLG-120/30G | RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 120/30 Watt |
| VLG-120/55G | RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 120/55 Watt |
| VLG-120/100G | RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 120/55 Watt |
| VLG-220/55G | RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 220/55 Watt |
| VLG-220/100G | RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 220/100 Watt |
| Absorbers | |
| PF30 | PF30 61x61cm |
| PF40 | PF40 61x61cm |
| PF60 | PF60 61x61cm |
| Flat Absorbers | Flat absorbers 61x61cmx10cm |
| Floor walkable absorbers | Floor walk able absorbers 122x61cmx48cm Attenuation: 23 dB min at 500Mhz and 30 dB min at 1GHz |

| AUDIO AND VIDEO SYSTEMS | |
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| FAS 3.1 | EMC hardened Audio system as duplex intercom and audio monitoring for electrical field-strength up to 225V/m, Frequency: 50Hz to 20kHz (HiFi-quality) |
| FDR-4 | DVD-Video Recorder DVD-Recorder for up to 4 cameras of Type ECS or FCS Stores on internal, external HD or on DVD Possibility to access through Ethernet Possibility to store videos in dependence of events or special details. includes Software |
| FMC-03 | EMC hardened Video system for electrical field strength up to 200V/m, consisting of: <ul style="list-style-type: none"> - 1 pc. Color Camera, type FMC-03 - Image format PAL 4:3 - Optical zoom, 40x, - Resolution 570K Pixel - Integrated microphone - 1 pc. Camera-controller, type FBC-03 - optical input for the Video signal - VGA/DVI-output for the monitor - Control-buttons for the PAN/TILT unit - 1 pc. PAN/TILT-unit type FPT-03, remote-controlled by camera-controller, type FBC-03 - 2 pc. Battery-pack, type FPB-03 with power-supply optional: Power-supply, type FPS-03 for fixed installation - 1 pc. 4,3" Set-up monitor - 20m optical fiber, simplex, FSMA-FSMA - 1 pc. Camera tripod - 1 pc. fiber-optic feed-through for shielded rooms The Monitor is not included in the delivery. Useable are any VGA/DVI-monitors. |
| FMC-03HD | EMC hardened Video system for electrical field strength up to 200V/m, consisting of: <ul style="list-style-type: none"> - 1 pc. Color Camera, type FMC-03HD - Image format PAL 16:9, 30fps - Optical zoom, 20x, - Resolution 2 M Pixel - Integrated microphone - 1 pc. Camera-controller, type FBC-03 - optical input for the Video signal - VGA/DVI-output for the monitor - Control-buttons for the PAN/TILT unit - 1 pc. PAN/TILT-unit type FPT-03, remote-controlled by camera-controller, type FBC-03 - 2 pack Battery-pack, type FPB-03 with power-supply optional: Power-supply, type FPS-03 for fixed installation - 1 pc. 4,3" Set-up monitor - 20m optical fiber, simplex, FSMA-FSMA - 1 pc. Camera tripod - 1 pc. fiber-optic feed-through for shielded rooms The Monitor is not included in the delivery. Useable are any VGA/DVI-monitors. |
| OO906103 | Camera Wall Holder |

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| FMC-03/M | <p>EMC hardened Video system for electrical field-strength up to 200V/m, consisting of:</p> <ul style="list-style-type: none"> - 1 pc. Color Camera, type FMC-03 - Image format PAL 4:3 - Optical zoom, 40x, - Resolution 570K Pixel - Integrated microphone - 1 pc. Camera-controller, type FBC-03 - optical input for the Video signal - VGA/DVI-output for the monitor - Control-buttons for the PAN/TILT unit - 1 pc. PAN/TILT-unit type FPT-03, remote-controlled by camera-controller, type FBC-03 - 2 pc. Battery-pack, type FPB-03 with power-supply optional: Power-supply, type FPS-03 for fixed installation - 1 pc. 4,3" Set-up monitor - 20m optical fiber, simplex, FSMA-FSMA - 1 pc. Camera tripod - 1 pc. fiber-optic feed-through for shielded rooms <p>The Monitor is not included in the delivery. Useable are any VGA/DVI-monitors.</p> |
| FMC-03HD/M | <p>EMC hardened Video system for electrical field-strength up to 200V/m, consisting of:</p> <ul style="list-style-type: none"> - 1 pc. Color Camera, type FMC-03HD - Image format PAL 16:9, 30fps - Optical zoom, 20x, - Resolution 2 M Pixel - Integrated microphone - 1 pc. PAN/TILT-unit type FPT-03, remote-controlled by camera-controller, type FBC-03 - 2 pc. Battery-pack, type FPB-03 with power-supply optional: Power-supply, type FPS-03 for fixed installation - 1 pc. 4,3" Set-up monitor - 10m optical fiber, simplex, FSMA-FSMA - 20m optical fiber, simplex, FSMA-FSMA - 1 pc. Camera tripod - 1 pc. fiber-optic feed-through for shielded rooms <p>The Monitor is not included in the delivery. Useable are any VGA/DVI-monitors.</p> |
| FMC-TV42 | <p>Flat screen TV 42"</p> <p>inputs: VGA, HDMI, a.o.</p> <p>resolution: Full-HD (1920x1080)</p> <p>integrated stereo speakers</p> |
| TEST-SYSTEM ACC. TO IEC/EN 61000-4-6: CIT-10 | |
| CIT-10 | <p>Compact Immunity Test System acc. to IEC/ EN 61000-4-6 and similar standards.</p> <p>Type: CIT-10/25</p> <p>Frequency range:</p> <p>Signal Generator: 10kHz to 400MHz, resolution: 1Hz</p> <p>RF-Power-Amplifier: 100kHz to 250MHz</p> <p>Amplitude modulation: 1Hz to 100kHz, 0 to 100%, resolution 0,5%</p> <p>Pulse modulation: 1Hz to 100kHz, 10% to 90%, resolution 1%</p> <p>Amplifier output power: 25W</p> <p>The compact instrument includes:</p> <ul style="list-style-type: none"> - Signal generator - Function generator - RF-power amplifier - RF-Voltage meter - Cable set - Control software for tests according EN 61000-4-6 <p>Integrated front panel display</p> <p>Connection by USB</p> <p>Harmonized Code 9031 8038</p> <p>Size 60x60x35cm 16kg</p> |

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| CIT-10/75 | <p>Compact Immunity Test System acc. to IEC/ EN 61000-4-6 and BCI-tests acc. to ISO 11452-4, MIL-STD-461E CS114, and similar standards Type: CIT-10/75 Frequency range: 10kHz to 400MHz, resolution: 1Hz Amplitude modulation: 1Hz to 100kHz, 0 to 100%, resolution 0,5% Pulse modulation: 1Hz to 100kHz, 10% to 90%, resolution 1% Amplifier output power: 100kHz - 400MHz, 75W Integrated front panel display The compact instrument includes:</p> <ul style="list-style-type: none"> - Signal generator - Function generator - RF-power amplifier - RF-Voltage meter - Directional coupler (optional) and 2-channel power meter for measurement of forward and reverse power - Cable set - Control software for tests acc. to EN 61000-4-6 <p>Connection by USB</p> |
| CIT-10/75A | <p>Compact Immunity Test System acc. to IEC/ EN 61000-4-6 and BCI-tests acc. to ISO 11452-4, MIL-STD-461E CS114, and similar standards Type: CIT-10/75 Frequency range: 10kHz to 400MHz, resolution: 1Hz Amplitude modulation: 1Hz to 100kHz, 0 to 100%, resolution 0,5% Pulse modulation: 1Hz to 100kHz, 10% to 90%, resolution 1% Amplifier output power: 10kHz-250MHz, 75W Integrated front panel display The compact instrument includes:</p> <ul style="list-style-type: none"> - Signal generator - Function generator - RF-power amplifier - RF-Voltage meter - Directional coupler (optional) and 2-channel power meter for measurement of forward and reverse power - Cable set - Control software for tests acc. to EN 61000-4-6 <p>Connection by USB</p> |

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| CIT-10/75MIL | <p>Compact Immunity Test System acc. to IEC/ EN 61000-4-6, Namur, and BCI-tests acc. to MIL-STD-461E CS114, and similar standards Type: CIT-10/75 Frequency range: 10kHz to 400MHz, resolution: 1Hz Amplitude modulation: 1Hz to 100kHz, 0 to 100%, resolution 0,5% Pulse modulation: 1Hz to 100kHz, 10% to 90%, resolution 1% Amplifier output power: 10kHz-250MHz, 75W Integrated front panel display The compact instrument includes: - Signal generator - Function generator - RF-power amplifier - RF-Voltage meter - Directional coupler (optional) and 2-channel power meter for measurement of forward and reverse power - Cable set - Control software for tests acc. to EN 61000-4-6 Connection by USB</p> |
| CIT-10/W | <p>CIT-10/W acc. to IEC/EN 61000-4-6 and BCI-Tests acc. to ISO 11452-4, MIL-STD-461E CS114, and similar standards Type: CIT-10/ W (without RF-amplifier, without directional coupler, without 6dB-attenuator) Frequency range: 10kHz to 400MHz, resolution: 1Hz Amplitude modulation: 1Hz to 100kHz, 0 to 100%, resolution 0,5% Pulse modulation: 1Hz to 100kHz, 10% to 90%, resolution 1% The compact tester contains: - Signal generator - Function generator - RF-voltage meter - 2-channel power meter for measurement of forward and reverse power - Cable kit - Control software for testing acc. to EN 61000-4-6 Display of test data USB-interface</p> |
| CIT-DC | <p>Directional Coupler for CIT-10 (internally installed) for measurement of forward and reverse power. acc. to standard IEC/ EN 61000-4-6 (V4.0). For evaluation of compression/ saturation of the test system Frequency: 10kHz-400MHz Power: 200W Coupling: 40dB Harmonized Code 9031 8038 Shipping with CIT-10. 1.5kg</p> |
| DÂM 25W | <p>Attenuator 6dB, 25W consisting of: 1 pc. Attenuator 1 pc. RF-cable BNC (m) - N (m) 1 pc. Adapter BNC (f) - N (m)</p> |
| DAM 75W | <p>Attenuator 6dB, 75W consisting of: 1 pc. Attenuator 1 pc. RF-cable BNC (m) - N (m) 1 pc. Adapter BNC (f) - N (m)</p> |

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| DAM 100W | Attenuator 6dB, 100W consisting of: 1 pc. Attenuator 1 pc. RF-cable BNC (m) - N (m) 1 pc. Adapter BNC(f) - N (m) |
| Additional Attenuator Models on Request | |
| CDN'S ACC. TO IEC/EN 61000-4-6 | |
| AF3 | Coupling unit acc. to IEC 61000-4-6 for unscreened, non-balanced lines. Frequency range: 150kHz to 230MHz, Number of lines: 3 Connector: terminal block Maximum current: 0,5A Maximum Voltage: AC 100V, DC 150V |
| AF3-MC | Coupling unit acc. to IEC 61000-4-6, for unscreened, non-balanced lines. Frequency range: 150kHz to 230MHz, Number of lines: 3 Connector: 4mm safety banana jack Maximum current: 0,5A Maximum Voltage: AC 100V, DC 150V |
| AF3-N | Coupling unit acc. to IEC 61000-4-6 for unscreened, non-balanced lines, Frequency range: 10kHz to 80MHz, Number of lines: 3 Connector: terminal block Maximum current: 0,5A Maximum Voltage: AC 100V, DC 150V |
| AF4 | Coupling unit acc. to IEC 61000-4-6, for unscreened, non-balanced lines, Frequency range: 150kHz to 230MHz, (Emission 300MHz), Number of lines: 4 Connector: terminal block Maximum current: 0,5A Maximum Voltage: AC 40V, DC 50V |
| AF4-MC | Coupling unit acc. to IEC 61000-4-6 for unscreened, non-balanced lines, Frequency range: 150kHz to 230MHz, Number of lines: 4 Connector: 4mm safety banana jack Maximum current: 0,5A Maximum Voltage: AC 40V, DC 50V |
| AF5 | Coupling unit acc. to IEC 61000-4-6 for unscreened, non-balanced lines. Frequency range: 150kHz to 230MHz, (Emission 300MHz) Number of lines: 5 Maximum current: 0,5A Maximum Voltage: AC 40V, DC 50V |
| AF5-MC | Coupling unit acc. to IEC 61000-4-6 for unscreened, non-balanced lines. Frequency range: 150kHz to 230MHz, Number of lines: 5 Connector: 4mm safety banana jack Maximum current: 1A Maximum Voltage: 100VAC |
| AF6 | Coupling unit acc. to IEC 61000-4-6 for unscreened, non-balanced lines. Frequency range: 150kHz to 230MHz, (Emission 300MHz) Number of lines: 6 Maximum current: 0,5A Maximum Voltage: AC 40V, DC 50V |

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| AF8 | Coupling unit acc. to IEC 61000-4-6 for unscreened, non-balanced lines. Frequency range: 150kHz to 230MHz, (Emission 300MHz) Number of lines: 8 Connector: terminal block Maximum current: 0,5A Maximum Voltage: AC 40V, DC 50V |
| AF8-MC | Coupling unit acc. to IEC 61000-4-6 for unscreened, non-balanced lines. Frequency range: 150kHz to 80MHz, Number of lines: 8 Connector: safety banana jack Maximum current: 16A Maximum Voltage: 250 VAC |
| CAN-4 | Coupling unit acc. to IEC 61000-4-6 for CAN-Bus (4 lines) Frequency range: 150kHz to 230MHz, Number of lines: 4 |
| CAN-5 | Coupling unit acc. to IEC 61000-4-6 for CAN-Bus (5 lines) Frequency range: 150kHz to 230MHz, Number of lines: 5 Maximum Voltage: 50V AC, 50V DC |
| DVI | Coupling unit acc. to IEC 61000-4-6 for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: DVI 24+5pin EUT/ AE: DVI-f |
| FIREWIRE | Coupling unit for IEEE 1394 devices (fire wire) Frequency range: 150kHz to 230MHz Number of lines: 6 + shielding |
| HDMI | Coupling unit acc. to IEC 61000-4-6 for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: HDMI Maximum current: 0,5A Maximum Voltage: AC 150V, DC 200V EUT/ AE: 19-pin HDMI 1.3A |
| ISN S8 | ISN for screened RJ45 or RJ11 connections. 1, 4 or 8 wire, acc. D.11 CISPR 22 Ed.5.2 |
| ISN T8 | ISN T8 CAT5 (LCL=65dB) acc. CISPR 22 ed.5.2 figure D.3 for up to 4 pairs UTP |
| KAL | Universal Calibration Set for CDN's, including 150/50 Ohm converter, standard version useable for CDN's type M1, M2, M3 |
| KAL-AD | Connector adapter in addition to Universal Calibration Set, for CDN Type xx. |
| KAL- | Connector adapter in addition to universal calibration set, for CDN type AF8-MC |
| KAL-AE | Universal Calibration Set includes 50Ohm termination for CDN's, including 150/50 Ohm converter, standard version useable for CDN's type M1, M2, M3 |
| KAL-ANG | Metal Angle. Additional metal angle for calibration set KAL includes 150/50 Ohm converter for calibration set KAL |
| KAL-HC | Calibration adapter for CDN's with high current. 63A/100A including 150/50 Ohm converter |
| KAL-RES | 150/50 Ohm Converter. Additional 150/50 Ohm converter for calibration set KAL |
| L1 | Coupling- Decoupling Unit for unscreened power supply lines, acc. to IEC 61000-4-6 Frequency range: 150kHz to 230MHz, Number of lines: 1 Maximum current: 16 A Maximum voltage: AC 250V, DC 400V Connector: 4mm safety banana jack |

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| L1/32 | Coupling- Decoupling Unit for ground lines or supply lines. Frequency range: 150kHz to 230MHz, Number of lines: 1 Maximum current: 32 A Maximum voltage: AC 250V, DC 400V |
| L2+N/32 | Coupling unit acc. to IEC 61000-4-6, for power supply lines. L1 + L2 + N Frequency range: 150kHz to 230MHz, Number of lines: 3 Maximum current: 32A Maximum Voltage: AC 250V, DC 400V |
| L3/32 | Coupling unit acc. to IEC 61000-4-6, for power supply lines. L1 + L2 + L3 Frequency range: 150kHz to 230MHz, Number of lines: 3 Maximum current: 32A Maximum Voltage: AC 250V, DC 400V |
| M1 | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines. Frequency range: 150kHz to 230MHz, Number of lines: 1 Connector: 4mm safety banana jack Maximum current: 0,5 A Maximum Voltage: AC 250V, DC 400V |
| M2/100-HV | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Frequency range: 150kHz to 80MHz, Number of lines: 2 Maximum current: 100A Maximum Voltage: 600VAC Connector: 6mm safety banana jack |
| M2/32 | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Frequency range: 150kHz to 230MHz, Number of lines: 2 Maximum current: 32A Maximum Voltage: AC 250V, DC 400V |
| M2/32-HV | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines. Frequency range: 150kHz to 80MHz, Number of lines: 2 Maximum current: 32A Maximum Voltage: 600VAC Connector: 4mm safety banana jack |
| M2/63-HV | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines. Frequency range: 150kHz to 80MHz, Number of lines: 2 Maximum current: 63A Maximum Voltage: 600VAC Connector: 6mm safety banana jack |
| M2+M3/32 | Coupling unit acc. to IEC 61000-4-6, for power supply lines. Frequency range: 150kHz to 230MHz, Number of lines: 2/3 (switch able) Maximum current: 32A Maximum Voltage: AC 250V, DC 400V |
| M3/100-HV | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines. Frequency range: 150kHz to 80MHz, Number of lines: 3 Maximum current: 100A Maximum Voltage: 600VAC Connector: 6mm safety banana jack |

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| M3/32 | Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines. Frequency range: 150kHz to 230MHz, Number of lines: 3 Maximum current: 32A Maximum Voltage: AC 250V, DC 400V |
| M3/32-HV | Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines. Frequency range: 150kHz to 80MHz, Number of lines: 3 Maximum current: 32A Maximum Voltage: 600VAC Connector: 4mm safety banana jack |
| M3/32-L | Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines, L1/L2/L3. Frequency range: 150kHz to 230MHz, Number of lines: 3 Maximum current: 32A Maximum Voltage: AC 250V Connector: 4mm safety banana jack |
| M3/32-LN | Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines, L1/L2/N Frequency range: 150kHz to 230MHz, Number of lines: 3 Maximum current: 32A Maximum Voltage: AC 250V Connector: 4mm safety banana jack |
| M3/32-VHV | Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines. Frequency range: 150kHz to 80MHz, Number of lines: 3 Maximum current: 32A Maximum Voltage: 1000VAC Connector: 4mm safety banana jack |
| M3/63-HV | Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines. Frequency range: 150kHz to 80MHz, Number of lines: 3 Maximum current: 63A Maximum Voltage: 600VAC Connector: 6mm safety banana jack |
| M3/32 | Coupling unit acc. to IEC 61000-4-6 for power supply lines. Frequency range: 150kHz to 230MHz, Number of lines: 3 Maximum current: 32A Maximum Voltage: AC 250V, DC 400V |
| M3-L | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, L1/L2/L3 Frequency range: 150kHz to 230MHz Number of lines: 3 Maximum current: 16A Maximum Voltage: AC 250V Connector: 4mm safety banana jack |
| M4 | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Frequency range: 150kHz to 230MHz, Number of lines: 4 Maximum current: 16A Maximum Voltage: AC 250V Connector: 4mm safety banana jack |
| M4/100-HV | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Maximum voltage: 600VAC Frequency range: 150kHz to 80MHz, Number of lines: 4 Maximum current: 100A Connector: 6mm safety banana jack |

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| M4/100-LN-HV | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, L1-L2-L3-N Maximum voltage: 600VAC Frequency range: 150kHz to 80MHz, Number of lines: 4 Maximum current: 100A Connector: 6mm safety banana jack |
| M4/32 | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Maximum voltage: 600VAC Frequency range: 150kHz to 80MHz, Number of lines: 4 Maximum current: 32A Connector: 4mm safety banana jack |
| M4/32-HV | Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines. Frequency range: 150kHz to 80MHz, Number of lines: 4 Maximum current: 32A Maximum Voltage: 1000VAC Connector: 4mm safety banana jack |
| M4/32-LN | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, L1-L2-L3-N Frequency range: 150kHz to 230MHz, Number of lines:4 Maximum current: 32A Maximum Voltage: AC 250V Connector: 4mm safety banana jack |
| M4/32-VHV | Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines. Frequency range: 150kHz to 80MHz, Number of lines: 4 Maximum current: 32A Maximum Voltage: 1000VAC Connector: 4mm safety banana jack |
| M4/63-HV | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Maximum voltage: 600VAC Frequency range: 150kHz to 80MHz, Number of lines: 4 Maximum current: 63A Connector: 6mm safety banana jack |
| M4/63-LN-HV | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, L1-L2-L3-N Maximum voltage: 600VAC Frequency range: 150kHz to 80MHz, Number of lines: 4 Maximum current: 63A Connector: 6mm safety banana jack |
| M4-LN | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, L1-L2-L3-N Frequency range: 150kHz to 230MHz, Number of lines: 4 Maximum current: 16A Maximum Voltage: AC 250V Connector: 4mm safety banana jack |
| M5 | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Frequency range: 150kHz to 230MHz, Number of lines: 5 Maximum current: 16A Connector: 4mm safety banana jack |

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| M5/100-HV | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Maximum voltage: 600VAC Frequency range: 150kHz to 80MHz, Number of lines: 5 Maximum current: 100A Connector: 6mm safety banana jack |
| M5/32 | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Frequency range: 150kHz to 230MHz, Number of lines: 5 Maximum current: 32A Connector: 4mm safety banana jack |
| M5/32-HV | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Maximum voltage: 600VAC Frequency range: 150kHz to 80MHz, Number of lines: 5 Maximum current: 32A Connector: 4mm safety banana jack |
| M5/32-VHV | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Maximum voltage: 1000VAC Frequency range: 150kHz to 80MHz, Number of lines: 5 Maximum current: 32A Connector: 4mm safety banana jack |
| M5/63-HV | Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Maximum voltage 600VAC Frequency range: 150kHz to 80MHz, Number of lines: 5 Maximum current: 63A Connector: 6mm safety banana jack |
| RJ11 | Coupling unit acc. to IEC 61000-4-6, with connector RJ11 for unscreened, symmetrical lines; Frequency range: 150kHz to 230MHz, Number of lines: 6 Maximum current: 0.25 A Maximum Voltage: AC 100V eff, DC 150V |
| RJ45 | Coupling unit acc. to IEC 61000-4-6, with connector RJ45 for unscreened, symmetrical used lines; Frequency range: 150kHz to 230MHz; Number of lines: 8; Maximum current: 0.25 A; Maximum Voltage: AC 100V eff, DC 150V |
| RJ45-S | Coupling unit acc. to IEC 61000-4-6, with connector RJ45 (8 lines + screen) for screened lines; Frequency range: 150kHz to 230MHz, Maximum current: 0.25 A Maximum Voltage: AC 100V eff, DC 150V |
| S1 | Coupling unit acc. to IEC 61000-4-6, for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: 1 Maximum current: 0,25A Maximum Voltage: AC 100V, DC 150V |
| S1/75 | Coupling unit acc. to IEC 61000-4-6, for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: 1 Maximum current: 0,25A Maximum Voltage: AC 100V, DC 150V Impedance: 75 Ohm Connector: BNC |

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| S15 | Coupling unit acc. to IEC 61000-4-6, for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: 15 Maximum current: 0,5A Maximum Voltage: AC 250V, DC 400V Connector: 15-pol Sub D |
| S2 | Coupling unit acc. to IEC 61000-4-6, for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: 2 Maximum current: 0,5A Maximum Voltage: AC 150V, DC 200V Connector: XLR |
| S25 | Coupling unit acc. to IEC 61000-4-6, for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: 25 Maximum current: 0,5A Maximum Voltage: AC 250V, DC 400V Connector: 25 pin Sub-D |
| S4 | Coupling unit acc. to IEC 61000-4-6, for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: 4 Maximum current: 0,5A Maximum Voltage: AC 250V Con.: 5 pin XLR |
| S8 | Coupling unit acc. to IEC 61000-4-6, for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: 8 Maximum current: 0,5A Maximum Voltage: AC 250V, DC 400V |
| S9 | Coupling unit acc. to IEC 61000-4-6, for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: 9 Maximum current: 0,5A Maximum voltage: AC 150V, DC 200V Connector: 9 pin Sub-D |
| S-DIR | Direct coupling on screened cables. Frequency range: 150kHz to 230MHz, Connectors: BNC/ crocodile clamp |
| T2 | Coupling unit acc. to IEC 61000-4-6, for unscreened, balanced lines, Frequency range: 150kHz to 230MHz Number of lines: 2 Maximum current: 0.5A Maximum Voltage: AC 150V, DC 200V Connector: terminal block |
| T4 | Coupling unit acc. to IEC 61000-4-6, for unscreened, balanced lines, Frequency range: 150kHz to 230MHz, Number of lines: 4 Maximum current: 0.5A Maximum Voltage: AC 150V, DC 200V Connector: terminal block |
| T6 | Coupling unit acc. to IEC 61000-4-6, for unscreened, balanced lines. Frequency range: 150kHz to 230MHz, Number of lines: 6 Max. current: 0.5A Max. Voltage: AC 150V, DC 200V Connector: RJ45 |

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| T8 | Coupling unit acc. to IEC 61000-4-6, for unscreened, balanced lines, Frequency range: 150kHz to 230MHz, Number of lines: 8 Maximum current: 0.5A Maximum Voltage: AC 150V, DC 200V Connector: terminal block |
| USB-3.0 | Coupling unit acc. to IEC 61000-4-6, for test of devices with USB (Compatible to all USB standards up to 3.0) Frequency range: 150kHz to 230MHz Maximum Current: 0.9A Maximum Voltage: AC 100V ; DC 150V Connectors: EUT: USB-socket Type A AE: USB-socket Type A |
| USB-C | Coupling unit acc. to IEC 61000-4-6, for test of central devices with USB Frequency range: 150kHz to 230MHz Maximum Current: 0.5A Maximum Voltage: AC 250V ; DC 400V Connectors: EUT: USB-socket Type B AE: USB-socket Type A |
| USB-P | Coupling unit acc. to IEC 61000-4-6, for test of peripheral devices with USB Frequency range: 150kHz to 230MHz Maximum Current: 0.5A Maximum Voltage: AC 250V ; DC 400V Connectors: EUT: USB-socket Type A AE: USB-socket Type B |
| CDN'S ACC. TO IEC/EN 61000-4-6 - NAMUR | |
| AF2-N | Coupling network acc. to IEC 61000-4-6 Namur for unscreened, non-balanced lines, Frequency range (Coupling): 10kHz - 230MHz, Number of lines: 2, Maximum Current: 0,5 A, Maximum Voltage: AC 40V, DC 50V Connector: Safety banana jack |
| AF4-N | Coupling network acc. to IEC 6100-4-6 Namur for unscreened, non-balanced lines, Frequency range (Coupling): 10kHz - 80MHz, Number of lines: 4, Maximum Current: 0.5 A, Maximum Voltage: AC 40V, DC 50V Connector: 4mm safety banana jack |
| AF8-N | Coupling network acc. to IEC 6100-4-6 Namur for unscreened, non-balanced lines, Frequency range (Coupling): 10kHz - 230MHz, Number of lines: 8, Connector: 9-pol Sub-D |
| M1-N | Coupling network acc. to IEC 61000-4-6 Namur for unscreened power supply lines, Frequency range (Coupling): 10kHz - 230MHz, Number of lines: 1, Maximum Current: 0.5A, Maximum Voltage: AC 250V, DC 400V Connector: 4mm safety banana jack |
| M2+M3-N | Coupling network acc. to IEC 6100-4-6 Namur for unscreened power supply lines, Frequency range (Coupling): 10kHz - 230MHz, Number of lines: 2/ 3, switch able Maximum Current: 16A, Maximum Voltage: AC 250V, DC 400V Connector: 4mm safety banana jack |

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| M2-N | Coupling network acc. to IEC 61000-4-6 Namur for unscreened power supply lines, Frequency range (Coupling): 10kHz - 230MHz, Number of lines: 2, Maximum Current: 16A, Maximum Voltage: AC 250V, DC 400V Connector: 4mm safety banana jack |
| M3-N | Coupling network acc. to IEC 6100-4-6 Namur for power supply lines, Frequency range (Coupling): 10kHz - 80MHz, Number of lines: 3, Maximum Current: 16A, Maximum Voltage: AC 250V, DC 400V |
| M4/32-N | Coupling network acc. to IEC 61000-4-6 Namur for unscreened power supply lines, Frequency range (Coupling): 10kHz - 230MHz, Number of lines: 4, Maximum Current: 32A, Maximum Voltage: AC 250V Connector: 4mm safety banana jack |
| M5-N | Coupling network acc. to IEC 61000-4-6 Namur for power supply lines, Frequency range: 10kHz to 80MHz, Number of lines: 5 Maximum current: 16A |
| RJ45-S-N | Coupling unit acc. to IEC 61000-4-6, acc. Namur for screened cables. Frequency range: 10kHz to 230MHz, Number of lines: 8 + screen Maximum current: 0,5A Maximum Voltage: AC 150V, DC 200V |
| S2-N | Coupling unit acc. to IEC 61000-4-6 acc. Namur for screened cables. Frequency range: 10kHz to 230MHz, Number of lines: 8 + screen Maximum current: 0,5A Maximum Voltage: AC 150V, DC 200V |
| S9-N | Coupling unit acc. to IEC 61000-4-6, Namur for screened cables. Frequency range: 10kHz to 230MHz, Number of lines: 9 Maximum current: 0.5A Maximum Voltage: AC 150V, DC 200V Connector: 9 pin Sub-D |
| T2-N | Coupling network acc. to IEC 61000-4-6 for unscreened, balanced lines. Frequency range: 10kHz - 80MHz, Number of lines: 2, Maximum Current: 0.5 A, Maximum Voltage: AC 150V, DC 200V Connector: terminal block |
| T4-N | Coupling network acc. to IEC 61000-4-6 Namur for unscreened, balanced lines, Frequency range (Coupling): 10kHz - 80MHz, Number of lines: 4, Maximum Current: 0.5 A, Connector: terminal block |
| USB-C-N | Coupling unit acc. to IEC 61000-4-6, acc. to Namur for test of central devices with USB Frequency range: 10kHz - 230MHz Maximum Current: 0.5A Maximum Voltage: AC 150V ; DC 200V Connector: EUT: USB-socket Type B AE: USB-socket Type A |

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| USB-P-N | Coupling unit acc. to IEC 61000-4-6, acc. to Namur for test of peripheral devices with USB Frequency range: 10kHz - 230MHz Maximum Current: 0,5A Maximum Voltage: AC 150V ; DC 200V Connectors: EUT: USB-socket Type A AE: USB-socket Type B |
| CDN'S ACC. TO IEC/EN 61000-4-6 + EN 55015 / EN 55022 | |
| AF2 | Coupling unit acc. to IEC 61000-4-6, EN 55015 and EN 55022 for unscreened, non-balanced lines. Frequency range: 150kHz to 300MHz Number of lines: 2 Connector: terminal block Maximum current: 0,5A Maximum Voltage: AC 40V, DC 50V |
| AF2-MC | Coupling unit acc. to IEC 61000-4-6, EN 55015 and EN 55025 for unscreened, non-balanced lines. Frequency range: 150kHz to 300MHz, Number of lines: 2 Connectors: 4mm safety banana jack Maximum current: 0,5A Maximum Voltage: AC 40V, DC 50V |
| M2 | Coupling unit acc. to IEC 61000-4-6, EN 55015 and EN 55022 for unscreened power supply lines. Frequency range: 150kHz to 230MHz (Emission up to 300MHz), Number of lines: 2 Maximum current: 16A Maximum Voltage: AC 250V, DC 400V Connector: 4mm safety banana jack |
| M2+M3 | Coupling unit acc. to IEC 61000-4-6, EN55022 and EN55015 for unscreened power supply lines. Frequency range: 150kHz to 230MHz (Emission up to 300MHz), Number of lines: 2/3 (switch able) Maximum current: 16A Maximum Voltage: AC 250V, DC 400V Connector: 4mm safety banana jack |
| M3 | Coupling unit acc. to IEC 61000-4-6, EN 55015 and EN 55022 for unscreened power supply lines. Frequency range: 150kHz to 230MHz (Emission up to 300MHz), Number of lines: 3 Maximum current: 16A Maximum Voltage: AC 250V, DC 400V Connector: 4mm safety banana jack |
| EM COUPLING CLAMP / DECOUPLING CLAMP - BCI CLAMP | |
| EMCL | Coupling clamp acc. to IEC 61000-4-6 Frequency range: 100kHz to 1000MHz, Maximum diameter: 20mm Connector: N-female Maximum RF input power: 150KHz to 100MHz: 100W Maximum 15 min. 100MHz to 230MHz: 100W Maximum 5 min. 230MHz to 1000MHz: 50W Maximum 3 min. includes calibration kit type KAL-EMCL 2 pc. (150/50 Ohm adapter) 1 pc. calibration cable 1 pc. 50 ohms- termination (N) 1 pc. adapter BNC (f)-N(m) |

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| EMCL-35 | Coupling clamp acc. to IEC 61000-4-6 Frequency range: 100kHz to 1000MHz (10kHz as an option) Maximum diameter: 37mm Connector: N-female Maximum RF input power: 150KHz to 100MHz: 100W Maximum 15 min. 100MHz to 230MHz: 100W Maximum 5 min. 230MHz to 1000MHz: 50W Maximum 3 min. includes calibration kit type KAL-EMCL 2 pc. (150/50 Ohm adapter) 1 pc. calibration cable 1 pc. 50 ohms- termination (N) 1 pc. adapter BNC (f)-N(m) |
| EMCL-MN10K | Matching network for EM coupling clamp type EMCL. Frequency range: 10kHz - 150kHz |
| KAL-EMCL | Calibration unit for coupling clamp, acc. to IEC 61000-4-6 Frequency range: 150kHz to 1000MHz, Maximum diameter: 20mm Maximum RF input power: 150KHz to 1000MHz: 100W Maximum 15 min. 100MHz to 230MHz: 100W Maximum 3 min. 230MHz to 1000MHz: 50W Maximum 3 min. includes calibration kit type KAL-EMCL 2 pc. (150/50 Ohm adapter) 1 pc. calibration cable 1 pc. 50 ohms- termination (N) 1 pc. adapter BNC (f)-N(m) |
| BCI-CLAMP-2 | Current Injection Clamp 10kHz-400MHz for BCI-tests acc. to ISO 11452-4, MIL-STD-461, ... Frequency range: 10kHz - 400MHz Frequency/ Insertion loss 10kHz/ 45dB, 100kHz/ 25dB, 800kHz/ 9dB, 1MHz/ 7,5dB, 10MHz/ 6dB, 100MHz/6dB, 200MHz/ 7dB, 300MHz/ 9dB, 400MHz/ 11dB Maximum input power: 45 min @ 100W 90 min @ 70W Diameter (outer): 120mm Diameter (inner): 40mm Width: 40mm Clamp can be opened/ closed includes calibration jig |
| BCI-ACC | BCI-Accessories 1pc TER 50: Termination 50 ohms 1 pc ATT30: Attenuator 30dB, 50ohms |
| MP-50 | Current monitoring probe MP-50 for conducted immunity measurements acc. to IEC/EN 61000-4-6, BCI-tests acc. to ISO 11452-4, RTCA/DO-160 section 20, MIL-STD-461 and various automotive standards Frequency range: 10 kHz - 400Mhz Insertion impedance: < 2.5 Ohm Maximum signal current (10 kHz - 400Mhz): 1 A Inner cable diameter: 46 mm Outer diameter of the probe: 115 mm Thickness of the probe: 30 mm Overall length of the probe: 136 mm Weight: 0.55 kg Individual calibration data are delivered with each probe. |

| TEST-SYSTEM ACC. TO IEC/EN 61000-4-16 / PSG-300 | |
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| PSG-300 | Power Signal Generator Type PSG-300/ 260W DC, 0.05Hz - 300kHz, sine, rectangle, ramp. 100V/us; +-50V; +-5A; k<0.1%; for continuous and short disturbing voltages up to 50V acc. to EN/ IEC 61000-4-16. External Generator input for optional connection of external voltage sources for generation of higher test voltage levels. USB; System software: WIN NT/2000/XP. |
| PSG-300A | Power Signal Generator Type: PSG-300/ 600W DC, 0.05Hz - 300kHz, sine, rectangle, ramp. 100V/us; +-50V; +-12A (typ. 15A); k<0.1%; Maximum output power: 600W typ. 800W for continuous and short disturbing voltages up to 50V acc. to EN/ IEC 61000-4-16. External Generator input for optional connection of external voltage sources for generation of higher test voltage levels. USB; System software: WIN NT/2000/XP. |
| PSG-E300 | Option: Extension to 300V of PSG-300 DC (0Hz), 16 2/3Hz, 50Hz, 60Hz External voltage source for generation of short term levels of IEC/ EN 61000-4-16 in connection with instruments of series PSG/ MTS at technical frequencies DC (0Hz), 16 2/3Hz, 50Hz, 60Hz up to 300V. Maximum time 10s. USB includes system software |
| PSG-EXT | Input connector for phase controlled switching of external power source (any brand) |
| ITU-16 | Coupling network acc. to ITU_T K54/fig.1 Fused at power frequencies 16 2/3Hz, 50Hz, 60Hz Connector: terminal block |
| PSG-SHUNT | Current shunt acc. to IEC/EN 61543 |
| PSG-U/I | Option: Voltage/ Current Measurement for Magnetic Field Tests acc. to MIL-STD-461 CS101 and EN55103-2 includes application software |
| PSG-ZDDIFF | Current shunt acc. to EN 61000-4-19 (Draft) Annex C; Figure C3 |
| CDN'S ACC. TO IEC/EN 61000-4-16 | |
| AF2-16 | Coupling unit acc. to IEC 61000-4-16, for unscreened, non-balanced lines. Frequency range: DC/15Hz to 150kHz, Number of lines: 2 Maximum current: 0.5A Maximum Voltage: AC 40V, DC 50V Connector: terminal block |
| AF4-16 | Coupling unit acc. to IEC 61000-4-16, for unscreened, non-balanced lines. Frequency range: DC/15Hz to 150kHz, Number of lines: 4 Maximum current: 0.5A Maximum Voltage: AC 40V, DC 50V Connector: terminal block |
| AF8-16 | Coupling unit acc. to IEC 61000-4-16, for unscreened, non-balanced lines. Frequency range: DC/15Hz to 150kHz, Number of lines: 8 Maximum current: 0,5A Maximum Voltage: AC 40V, DC 50V Connector: terminal block |

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| CN-50065-2-1 | <p>Coupling unit acc. to EN 50065-2-1, 7.2.2 Frequency range: 3kHz bis 30MHz Test level: 134dBμV (5V) cont. Number of lines: 2 (N+L) Maximum voltage: AC 250V Connection ports: Input: BNC Output: 4mm MC</p> |
| M2/DC-16 | <p>Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines. Frequency range: DC Test level: 50V cont. Number of lines: 2 Voltage/Current: 50V/32A Connector: 4mm banana safety jack</p> |
| M2+M3-16 | <p>Coupling unit acc. to IEC 61000-4-16, for unscreened power supply lines. Frequency range: DC/ 15Hz to 150kHz Number of lines: 2/3 switch able Maximum current: 32A Maximum Voltage: 520VAC / 620 VDC Connector: 4mm safety banana jack</p> |
| M2-16 | <p>Coupling unit acc. to IEC 61000-4-16, for unscreened power supply lines. Frequency range: 15Hz to 150kHz Test level: 50V cont. 300V (1s) at energetically used frequencies Number of lines: 2 Maximum current: 32A Maximum Voltage: AC 250V (50VDC, 32A) Connector: 4mm safety banana jack</p> |
| M2345/125-16 | <p>Coupling unit acc. to IEC/ EN 61000-4-16 Switch able between modes M2/ M3/ M4/ M5 for power supply lines. Frequency range: DC, 15Hz to 150kHz Maximum test level: 300V cont. Number of lines: 2, 3, 4, 5 switch able Maximum current: 125A Connection: 6mm MC socket Stand-alone and remote controllable</p> |
| M2345/32-16 | <p>Coupling unit acc. to IEC/ EN 61000-4-16 Switch able between modes M2/ M3/ M4/ M5 for power supply lines. Frequency range: DC, 15Hz to 150kHz Maximum test level: 300V cont. Number of lines: 2, 3, 4, 5 switch able Maximum current: 32A Stand-alone and remote controllable</p> |
| M3/DC-16 | <p>Coupling unit acc. to IEC 61000-4-16, for unscreened power supply lines. Frequency range: DC Test level: 50V cont. Number of lines: 3 Voltage/Current: 50V/32A Connector: 4mm safety banana jack</p> |
| M3-16 | <p>Coupling unit acc. to IEC 61000-4-16, for unscreened power supply lines. Frequency range: 15Hz to 150kHz, Number of lines: 3 Maximum current: 32A Connector: 4mm safety banana jack</p> |

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| M4-16 | Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines. Frequency range: 15Hz to 150kHz Test level: 50V cont. 300V (1s) at energetically used frequencies Number of lines: 4 Maximum current: 32A Connector: 4mm terminal block |
| M5-16 | Coupling unit acc. to IEC 61000-4-16, for power supply lines. Frequency range: 15Hz to 150kHz Test level: 50V cont. 300V (1s) at energetically used frequencies Number of lines: 5 Maximum current: 32A Connector: 4mm terminal block |
| RJ45-16 | Coupling unit acc. to IEC 61000-4-16, with connector RJ45; for unscreened, non-balanced lines Frequency range: DC/15Hz to 150kHz Number of lines: 8; Maximum current: 0.5 A; Maximum voltage: AC 40V, DC 50V |
| T2-16 | Coupling unit acc. to IEC 61000-4-16, for unscreened, balanced lines. Frequency range: DC/15Hz to 150kHz, Number of lines: 2 Maximum current: 0,5A Maximum Voltage: AC 150V, DC 200V Connector: terminal block |
| T4-16 | Coupling unit acc. to IEC 61000-4-16, for unscreened, balanced lines. Frequency range: DC/15Hz to 150kHz, Number of lines: 4 EUT / AE-port: Maximum current 0.5A Maximum voltage: 50V Connector: terminal block |
| T8-16 | Coupling unit acc. to IEC 61000-4-16, for unscreened, balanced lines. Frequency range: DC/15Hz to 150kHz, Number of lines: 8 EUT / AE-port: Maximum current 0.5A Maximum voltage: 50V Connector: terminal block |

| MAGNETIC FIELD TEST SYSTEM - MTS-800 & ACCESSORIES | |
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| MTS-800 | <p>Generator/ Analyzer for Testing and Measuring Magnetic Fields acc. standards: EN61000-4-16 EN61000-4-8 EN 55103-1/ 2 MIL-STD-461 (CE101, RE101, CS101, CS109, RS101) SAE J1113-22 and similar standards Compact test system consisting of: - Signal generator: Frequency range: DC/ 10Hz - 250kHz -Precision-Power amplifier Frequency range: DC-1MHz Output voltage: 50V eff, output current: 16A Max. output power: 800 W The max. achievable magnetic field strength depends on the size of EUT and of necessary coil size -Spectrum analyzer: Frequency range: 10Hz-250kHz The package includes: -Compact system MTS-800 -Power cord -PC-interface cable (RJ-45) -System software WIN 7 / 8.1</p> |
| MTS-800/W | <p>Generator/ Analyzer for Testing/ Measuring Magnetic Fields (without power amplifier) acc. standards: EN61000-4-16, EN61000-4-8, EN 55103-1/ 2, MIL-STD-461E (CE101, RE101, CS101, CS109, RS101), SAE J1113-22 and similar standards Compact test system consisting of: - Signal generator Frequency range: DC/ 10Hz - 250kHz -external Precision-Power amplifier required -Spectrum analyzer Frequency range: 10Hz-250kHz The package includes: -Compact system MTS-800 -Power cord -PC-interface cable (RJ-45) -System software WIN 2000/ XP</p> |

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| MTS-800K | <p>Generator/ Analyzer for Testing/Measuring Magnetic Fields. Complete System acc. standards: EN61000-4-8, EN 55103-1/ 2 , MIL-STD-461E (CE101, RE101, CS101, CS109, RS101) , SAE J1113-22 and similar standards Compact test system consisting of:</p> <ul style="list-style-type: none"> - Signal generator: Frequency range: DC/ 10Hz - 250kHz -Precision-Power amplifier: Frequency range: DC-1MHz Output voltage: 50V eff, output current: 16A Max. output power: 800 W <p>The max. achievable magnetic field strength depends on the size of EUT and of necessary coil size</p> <ul style="list-style-type: none"> -Spectrum analyzer Frequency range: 10Hz-250kHz <p>The complete system includes</p> <ul style="list-style-type: none"> -Compact system MTS-800 -Power cord -PC-interface cable (RJ-45) -System software WIN 2000/ XP -Compensation board & Triax-coil HCST_50/28 for generation of field strength of 1000A/m acc. to ISO11452-8 |
| HCS-125/75 | <p>Helmholtz Coil for tests acc. to following standards: MIL-STD-461E, EN 55103-2, SAE J1113-22 and similar standards. frame length: 1,250mm x 1,250mm Distance: 750mm incl. cable set, 3m</p> |
| HCS-50/28 | <p>Helmholtz Coil for tests according to following standards: MIL-STD-461E, ISO 11452-8, SAE J1113-22 and similar standards. frame length:500mm x 500mm Distance: 280mm incl. cable set, 3m</p> |
| HCS-100/60 | <p>Helmholtz Coil for tests acc. to following standards: MIL-STD-461E, ISO 11452-8, SAE J1113-22 and similar standards frame length: 1,000mm x 1,000mm Distance: 600mm incl. cable set, 3m</p> |
| HCST-50/28 | <p>Helmholtz Coil for tests acc. to following standards: MIL-STD 461, ISO 11452-8, SAE J1113-22, and similar standards Coil 1 frame length: 500mm x 500mm Distance: 280mm Coil 2 frame length: 460mm x 460mm Distance: 280mm Coil 3 frame length: 420mm x 420mm Distance: 280mm</p> |
| HCR-500/200 | <p>Helmholtz Coil for DC Application for tests acc. to standard: ISO 11452-8 and similar standards Coil diameter 500mm Distance 250mm Max. input current 32A coil factor 150 1/m 4x14 windings includes Silicon high current cable 10qmm Connection socket ID/S6AR-N-S 3000A/m DC require a CD-current supply of 20A DC</p> |
| HC-VER | Transport box for Helmholtz coil |

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| IT-16 | Isolation Transformer Power: 3680VA Primary voltage: 230V Secondary voltage: 230V Secondary current: 16A Differential/ Common-Mode attenuation (15Hz ..150kHz): 60dB Isolation: -1kV (50Hz/ 60Hz) acc. to IEC/ EN 61000-4-16 |
| IT-20 | Isolation Transformer Power: 4600VA Primary voltage: 230V Secondary voltage: 230V Secondary current: 20A Differential/ Common-Mode attenuation (15Hz ..150kHz): 60dB Isolation: -1kV (50Hz/ 60Hz) acc. to IEC/ EN 61000-4-16 Weight: 50kg |
| IT-6 | Isolation Transformer Power: 1380VA Primary voltage: 230V Secondary voltage: 230V Secondary current: 6A Differential/ Common-Mode attenuation (15Hz ..150kHz): 60dB Isolation: -1kV (50Hz/ 60Hz) acc. to IEC/ EN 61000-4-16 |
| LS-040 | 40mm Coil acc. to MIL-STD-461E (RE101) includes cable, 3m |
| LS-133 | 133mm Coil acc. to MIL-STD-461E (RE101) includes cable 3m |
| BC-500 | Large field coil for immunity tests acc. to EN 55103 Diameter: 500mm includes cable 3m |
| MTS-KN | Calibration network acc. to EN55103-2, picture B2 |
| MTS-KOM | Compensation board for MTS-800 (add-on kit) for compensation of the coil inductivity of optional available Helmholtz-coils HCS-50/28 and HCST-50/28 to meet 1000A/m at 1kHz. |
| MTS-KUR | Option: Short time field Maximum input 25A |
| MTS-PA | Common mode test adapter acc. to EN55103-2, picture B1 |
| MTS-ST | Current transducer includes correction network acc. to EN55103-2, picture B4 |
| MTS-STE | External Transformer for the generation of short term fields according to IEC/EN 61000-4-8 Primary: 230V Secondary: 0-260V Maximum Current: 20A |
| RL-120 | 120mm Coil acc. to MIL-STD-461E (RS101) includes Cable, 3m |

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| RLS-133 | 133mm Coil acc. to EN 55103 includes Cable, 3m |
| Software | |
| SW-4/16 | Software module, EN 61000-4-16 Windows-Software for measurements according to EN 61000-4-16. Plug-in for MTS-800 system software. |
| SW-CE101 | Software module, MIL-STD-461E (CE101) Windows-Software for measurements according to MIL-STD-461E / CE101. Plug-in for MTS-800 system software. |
| SW-CS101 | Software module, MIL-STD-461E (CS101) Windows-software for measurements according to MIL-STD-461E / CS101. Plug in for MTS-800 system software. Only usable with coupling transformer CT-50A/C |
| SW-CS109 | Software module, MIL-STD-461E (CS109) Windows-Software for measurements according to MIL-STD-461E / CS109. Plug-in for MTS-800 system software. |
| Coupling Network | |
| CT-2.5/50A/C | Coupling network for tests acc to DO-160 Section 18 For these test MTS-800 (optional) is requested. includes resistor (active cooled) difference amplifier connector power supply, cables, and software modification in software of MTS-800 |
| CT-50A/C | Coupling Transformer Coupling Transformer, type CT2,5/50A according to MIL-STD-461E (CS101) for measurements with magnetic field test system MTS-800. Maximum current: 15A (primary), 50A (secondary). Frequency range: 15Hz to 250kHz. Inclusive Resistor 0,5 Ohm, 100W (active cooling) and amplifier, with power adapter and cabling. DO160 chapter 18, boxed , 4mm MC-sockets |
| CT-ISS-19 | Coupling network for tests acc to DO-160 Section 19 (19.3.1, 19.3.2, 19.3.3) For these test MTS-800 (optional) is requested. includes connector power supply, cables and software |

| EMC CONTROL UNIT - ECU | |
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| ECU-3 | <p>Compact EMC Control Unit - Basic Instrument</p> <p>Frequency range: 9kHz - 3GHz for radiated and conducted immunity tests and emission measurements</p> <p>Supports test according following standards:IEC/ EN 61000-4-3, -6, ISO 11452-2, -3, -4, -5,MIL-STD 461, RS103, RE102 and emission standards</p> <p>Includes following instruments/ functions:</p> <ul style="list-style-type: none"> -Signal generator: 9kHz - 3GHz, - Frequency resolution: 0,1Hz - Signals output (modulation): CW, AM, PM - Output level:-65dBm to +10dBm - Resolution of output level: 0,1dB <p>-2 internal RF-switching relay (type: 1 I/O to 3 O/I) for switching signal generator output to inputs of 3 amplifiers and outputs of 3 amplifiers to antenna load 1</p> <p>-2 Monitoring inputs, type EUT-Fail, TTL/CMOS compatible</p> <p>-2 Monitoring inputs, type analogue measuring input, 0-10V</p> <p>-Interlock input connectable to an external switching relay, with LED (Reset with or without manual confirmation at Reset button)</p> <p>-switching to emission path and connection of 1 measuring receiver/ spectrum analyzer</p> <p>-Display of set paths at front panel</p> <p>-Display of frequency, generator level, modulation,</p> |
| ECU-6 | <p>Compact EMC Control Unit - Basic Instrument</p> <p>Frequency range: 9kHz - 6GHz</p> <p>for radiated and conducted immunity tests and emission measurements</p> <p>Supports test according following standards: IEC/ EN 61000-4-3, -6, ISO 11452-2, -3, -4, -5, MIL-STD 461, RS103, RE102 and emission standards</p> <p>Includes following instruments/ functions:</p> <ul style="list-style-type: none"> -Signal generator: 9kHz - 6GHz, - Frequency resolution: 0,001Hz - Signals output (modulation): CW, AM, PM, FM - Output level:-65dBm to +13dBm - Resolution of output level: 0,1dB <p>-2 internal RF-switching relay (type: 1 I/O to 4 O/I) for switching signal generator output to inputs of 4 amplifiers and outputs of 4 amplifiers to antenna load 1</p> <p>-2 Monitoring inputs, type EUT-Fail, TTL/CMOS compatible</p> <p>-2 Monitoring inputs, type analogue measuring input, 0-10V</p> <p>-Interlock input connectable to an external switching relay, with LED (Reset with or without manual confirmation at reset button)</p> <p>-switching to emission path and connection of 1 measuring receiver/ spectrum analyzer</p> |
| ECU-120DBM | <p>Option for ECU-3/6</p> <p>Output level from -120dBm</p> |
| ECU-DC1A | <p>Option for ECU-3/6</p> <p>ECU-DC1A: Directional coupler,10kHz -250MHz, 30dB, 100W</p> |
| ECU-DC1B | <p>Option for ECU-3/6</p> <p>ECU-DC1B: Directional coupler, 10kHz-400MHz, 30dB, 100W</p> |
| ECU-DC1C | <p>Option for ECU-3/6</p> <p>ECU-DC1C: Directional coupler,10kHz-400MHz, 40dB, 500W</p> |
| ECU-DC2 | <p>Option for ECU-3/6</p> <p>ECU-DC2: Directional coupler, 80MHz-1000MHz, 50dB, 1500W</p> |
| ECU-DC3 | <p>Option for ECU-3/6</p> <p>ECU-DC3: Directional coupler,1GHz-4GHz, 40dB, 600W</p> |
| ECU-DC34 | <p>Directional Coupler, type C8000</p> <p>Frequency Range: 600MHz to 6GHz</p> <p>Coupling: 30dB</p> <p>Maximum Input Power: 100 Watt</p> |

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| ECU-DC3B | Option for ECU-3/6 ECU-DC3: Directional coupler,0,8GHz-4,2GHz, 40dB, 600W |
| ECU-DC4 | Option for ECU-6 ECU-DC4: Directional coupler, 2GHz-8GHz, 40dB, 600W |
| ECU-EXPM | Option for ECU-3/6 ECU-EXPM: External modulation input for generation of pulsed signals e.g. radar pulses acc. to automotive standards (This option requires an optional external LF-generator) |
| ECU-KS2 | Cable-set and GPIB-interface for immunity test systems with 2 amplifiers. Consisting of: 1pc. "National Instruments" GPIB-interface 1set Bus cable and RF-cables The Control-PC is not included. |
| ECU-KS3 | Cable-set and GPIB-interface for immunity test systems with 3 amplifiers. Consisting of: 1pc. "National Instruments" GPIB-interface 1set Bus cable and RF-cables The Control-PC is not included. |
| ECU.KS4 | Cable-set and GPIB-interface for immunity test systems with 4 amplifiers. Consisting of: 1pc. "National Instruments" GPIB-interface 1set Bus cable and RF-cables The Control-PC is not included. |
| ECU-LAN | Option for ECU-3/6 ECU-LAN: additional interface: LAN |
| ECU-LWL-U1 | Fiber Optical Transmission Line for analogue voltage signals for connection with ECU-3/6 Especially hardened for application in EMI-measurements and EMS-tests Transmitting voltage: 0 to 10V consisting of 2 pcs transceiver (battery supplied) integrated into shielded box with rubber protection Channels: 1 Battery supply: 5 pc NiMH-batteries, 4Ah Operation time: >30h 5-pin charging connector Dimension per unit: 136mm x 86mm x 65mm Weight: 800g 1 pc 20m optical fiber FSMA/ duplex multimode fiber 62.5/125µm 2 pc Power charger Optional available (not included): PS-11E (no extra costs) Permanent power supply of transceiver, which is used outside the shielded room, instead of internal batteries and charger PS-12E External RF-shielded power supply PS-AKKU external battery pack External filter depending on application |
| ECU-OUT2 | Option for ECU-3/6 ECU-OUT2: Switching between 2 outputs antenna/ load |
| ECU-OUT3 | Option for ECU-3/6 ECU-OUT3: Switching between 3 outputs Antenna/ Load |
| ECU-PM1 | Option for ECU-3/6 ECU-PM1: Power meter/ RF-milli-voltmeter, 10kHz-500MHz, 2 channel |
| ECU-PM1A | Option for ECU-3/6 ECU-PM1A: Power meter/ RF-milli-voltmeter, 10kHz-500MHz, 1 channel |
| ECU-PM2 | Option for ECU-3/6 ECU-PM2: Power meter/ RF-milli-voltmeter, 100kHz-6GHz, 2 channel |
| ECU-PM2A | Option for ECU-3/6 ECU-PM2: Power meter/ RF-milli-voltmeter, 100kHz-6GHz, 1 channel |
| ECU-PM2B | Option for ECU-3/6 ECU-PM2: Power meter/ RF-milli-voltmeter, 10kHz-1GHz, 1 channel |

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| ECU-REC2 | Option for ECU-3/6 ECU-REC2: Connection of 2 measuring receivers/ spectrum analyzer |
| ECU-SW6 | Option for ECU-3/6 ECU-SW6: Standard-software for testing acc. to IEC/ EN 61000-4-6 |
| ECU-WARN | Option for ECU-3/6 ECU-WARN: Change circuit for control of an optional red/ green light system to signalize following status: 1. status: No test (Generator off)-Door opening allowed 2. status: Test (Generator on)- Door opening forbidden/ XLR-Connector (1-COM-2) Maximum rated values: 230V AC/DC, 200mA |
| RF-RELAY-SWITCHING UNITS - RSU | |
| RSU 0213 | RF Switching Box with 1 Relays (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 1 Switching from 1 input to 3 outputs (1x3) |
| RSU 0223 | RF Switching Box with 2 Relays (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 2 Switching from 1 input to 3 outputs (1x3) |
| RSU 0233 | RF Switching Box with 3 Relays (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 3 Switching from 1 input to 3 outputs (1x3) |
| RSU 0243 | RF Switching Box with 4 Relays (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 4 Switching from 1 input to 3 outputs (1x3) |

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| RSU 1203 | <p>RF Switching Box with 1 Relay (1x2) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 1 Switching from 1 input to 2 outputs (1x2)</p> |
| RSU 1203-40 | <p>RF Switching Box with 1 Relay (1x2) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...40GHz. Connector: SMA 2.9 (10W@40GHz) Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 1 Switching from 1 input to 2 outputs (1x2)</p> |
| RSU 1213 | <p>RF Switching Box with 4 Relays 1 (1x2), 1 (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 1 1 is switching from 1 input to 2 outputs (1x2) 1 are switching from 1 input to 3 outputs (1x3)</p> |
| RSU 1223 | <p>RF Switching Box with 5 Relay 1 (1x2), 2 (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 3 1 are switching from 1 input to 2 outputs (1x2), 2 are switching from 1 input to 3 outputs (1x3)</p> |
| RSU 1233 | <p>RF Switching Box with 4 Relays for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 4 from this: 1 is switching from 1 input to 2 outputs (1x2) 3 are switching from 1 input to 2 outputs (1x3)</p> |

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| RSU 2203 | <p>RF Switching Box with 2 Relays (1x2) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 2 Switching from 1 input to 2 outputs (1x2)</p> |
| RSU 2203-40 | <p>RF Switching Box with 2 Relays (1x2) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...40GHz. Connector: SMA 2.9 (10W @40GHz) Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 2 Switching from 1 input to 2 outputs (1x2)</p> |
| RSU 2213 | <p>RF Switching Box with 3 Relays 2 (1x2), 1 (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 3 2 are switching from 1 input to 2 outputs (1x2) 1 is switching from 1 input to 3 outputs (1x3)</p> |
| RSU 2223 | <p>RF Switching Box with 5 Relay 2 (1x2), 3 (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 4 2 are switching from 1 input to 2 outputs (1x2) 2 are switching from 1 input to 3 outputs (1x3)</p> |
| RSU 3203 | <p>RF Switching Box with 3 Relays (1x2) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 3 Switching from 1 input to 2 outputs (1x2)</p> |

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| RSU 3203-40 | RF Switching Box with 3 relays for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...40GHz. Connector: SMA 2,9 (10W@40GHz) IEEE 488-interface Quantity of switching relays: 3 |
| RSU 3213 | RF Switching Box with 4 Relays 3 (1x2), 1 (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 4 1 is switching from 1 input to 2 outputs (1x2), 3 are switching from 1 input to 3 outputs (1x3) |
| RSU 4203 | RF Switching Box with 4 Relays (1x4) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 4 Switching from 1 input to 2 outputs (1x2) |
| RSU 4203-40 | RF Switching Box with 4 Relays (1x4) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...40GHz. Connector: SMA 2,9 (10W@40GHz) Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 4 Switching from 1 input to 2 outputs (1x2) |
| RSU 5203 | RF Switching Box with 5 Relays (1x2) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 5 2 relays of them are coupled-switch able Switching from 1 input to 2 outputs (1x2) |

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| RSU 5203-40 | <p>RF Switching Box with 5 Relays (1x2) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...40GHz. Connector: SMA 2,9 (10W@40GHz) Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 5 2 relays of them are coupled-switch able Switching from 1 input to 2 outputs (1x2)</p> |
| RSU-IL | <p>Option: Interlock-switch relay switching unit RSU All relays 1/3 are switched into position neutral as soon as the contact is opened (No path connected) Connector output: BNC</p> |
| 2/4 CHANNEL RF-POWER METERS | |
| PMS 1084 | <p>2-Channel RF-Power-Meter (4-channels optional) Frequency range: 100kHz - 6GHz Measuring range: 100kHz - 4GHz: -60dBm to +20dBm 4GHz - 6GHz: -45dBm to + 20dBm RF-impedance: 50 Ohms Interfaces: RS 232, USB Included are: - power cord - application software - LabView-driver - Manual</p> |
| PMS 1084B | <p>2-Channel RF-Power-Meter (4-channels optional) Frequency range: 10kHz - 500MHz Measuring range: -50dBm to +27dBm RF-impedance: 50 Ohms Interfaces: RS 232, USB Included are: - power cord - application software - LabView-driver - Manual</p> |
| PMS-CHA | <p>Expansion of 1 measuring channel of PMS-1084 (Optional expansion of PMS-1084 up to 4-channels is possible) Frequency range: 100kHz - 6GHz Measuring range: 100kHz - 4GHz: -60dBm to +20dBm 4GHz - 6GHz: -45dBm to + 20dBm RF-impedance: 50 Ohms</p> |
| PMS-CHAB | <p>Expansion of 1 measuring channel of PMS-1084B Frequency range: 10kHz - 500MHz Measuring range: -50dBm to +27dBm RF-impedance: 50 Ohms (Optional expansion of PMS-1084 up to 4-channels is possible)</p> |
| ANTENNAS & ACCESSORIES | |

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| ALX-4000 | Broadband Antenna for emission and immunity measurements Frequency-range: 25MHz - 4GHz Maximum Input-power: 100MHz: 900W 500MHz: 300W 1000MHz: 210W 2000MHz: 140W 3000MHz: 100W |
| ALX-4000E | Broadband Antenna for emission and immunity measurements Especially optimized version with low antenna factor for emission measurements Frequency-range: 25MHz - 4GHz Maximum Input-power: 100W cw; 200W (modulated) |
| ALX-8000E | Broadband Antenna for emission and immunity measurements Especially optimized version with low antenna factor for emission measurements Frequency-range: 25MHz - 8GHz Maximum Input-power: 100W cw; 200W (modulated) |
| AXL-200 | Double stacked log. Per. Antenna. for tests acc. to automotive standards Frequency range: 200MHz - 2500MHz Typ. gain: 9dBi±2dBi Maximum input: 1kW N-socket Shipping Container: 94x93x45cm. Weight 13.5 kg. |
| AXL-80 | Stacked Broadband Antenna Frequency range: 80MHz - 4GHz Typ. gain: 9dBi±2dBi Maximum input: 1kW N-socket Quick installation and deinstallation |
| AXL-80-6G | Stacked Broadband Antenna Frequency range: 80MHz - 10,5GHz Typ. gain: 9dBi±2dBi Maximum input: 1kW N-socket Quick installation and deinstallation Tip protected by radom Especially recommended for tests according to EN61000-4-3 |
| AXL-80S | Double Stacked Broadband Antenna Special version reduced design compared to standard version AXL-80 Antenna diameter <150cm also usable for automotive component tests according to ISO 11452-2 Frequency-range: 80MHz - 4GHz Typ. gain: 9dBi±3dBi Maximum input: 1kW N-input socket Quick installation and de-installation |
| HAX-18 | Horn Antenna Frequency-range: 800MHz - 18GHz Gain: 6dBi - 16dBi Maximum input power: 300W cw (500W peak) Input socket: N |

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| HAX-40 | Horn Antenna Frequency-range: 14GHz - 40GHz Gain:15dBi - 20dBi Maximum input power: 1kW Input socket: SMA-compatible |
| HAX-6 | Horn Antenna Frequency-range: 0.5-6GHz Gain: >12dBi (from 1GHz) Maximum input power: 300W cw, 500W interm. Input socket: N Other data: see catalogue |
| HAX-6-KFZ | Horn Antenna especially recommended for automotive components tests Frequency-range: 1-6GHz Gain: >12dBi Maximum input power: 300W cw, 500W interm. Input socket: N |
| LAX-10 | Active Loop Antenna for magnetic field measurement Frequency range: 9kHz - 30MHz Antenna factor for fictive E-field: 20dB/m Antenna factor for H-field: -31,5 dB/ cm Connector: BNC Loop diameter: 0,5m Battery pack charger |
| MAX-18 | Double stacked log-per antenna for emission measurement and immunity tests Frequency range: 0.7GHz - 18GHz typ. gain: 8.6dBi Maximum input power: 50W Input socket: N |
| MAX-9 | Double stacked log-per antenna for emission measurement and immunity tests acc. to IEC/ EN 61000-4-3 Frequency range: 0.7GHz - 10.5GHz typ. gain: 10dBi Maximum input power: 300W (at 1GHz), 150W (at 6GHz) |
| SAM-18 | Biconical antenna for usage in microwave range for generation of electrical fields under free space conditions for example measurement of SVSWR acc. to CISPR 16-4-1 Frequency range: 3GHz - 18GHz typ. gain: Maximum input power: Input socket: |
| SAM-6 | Biconical antenna for usage in microwave range for generation of electrical fields under free space conditions for example measurement of SVSWR acc. to CISPR 16-4-1 Frequency range: 1GHz - 6GHz |

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| SAX-10 | Active Rod Antenna Vertical monopole antenna Frequency range: 9kHz - 30MHz typ. gain: +10dB/m \pm 1,5dB Connector: BNC Battery pack |
| SAX-ACS110 | Charger for usage with SAX-10 |
| SAX-CA | Calibration adapter for SAX-10 |
| SAX-DIV | 20dB -Divider for extension of E-measuring range of SAX-10, including calibration data |
| SAX-GP | Ground plane 0.6m x 0.6m for usage with |
| SAX-MIL461 | Bonding kit for SAX-10 acc. MIL-STD-461F consisting of a BNC cable double shielded ca. 70 cm, with braid current blocking ferrite in the center, elbow aluminum angle with BNC bulkhead adapter. |
| PRE-AMPLIFIER | |
| FPA-2 | Broadband Preamplifier Frequency range: 9kHz - 2GHz typ. gain: 28dB low noise ESD-protected Connector N/N includes power supply |
| FPA-26 | Broadband Preamplifier Frequency range: 18GHz - 26.5GHz typ gain: 33dB Adjustment on 22mm antenna pipe includes adapter cable SMA-N includes power supply 12V 250mA Optional: battery pack with charger |
| FPA-40 | Broadband Preamplifier Frequency range: 18GHz - 40GHz typ gain: 30dB Adjustment on 22mm antenna pipe includes adapter cable SMA-N includes power supply 12V 600mA Optional: battery pack with charger |
| FPA-6 | Broadband Preamplifier Frequency range: 10MHz - 6GHz typ. gain: 30dB low noise Connector N/N incl. power supply |
| FPA-6A | Broadband Preamplifier Frequency range: 10MHz - 6GHz typ. gain: 28dB low noise ESD-protected Connector N/N includes power supply |
| FPA-6B | Broadband Preamplifier Frequency range: 9kHz - 6GHz typ. gain: 28dB low noise no ESD-protection Connector N/N includes power supply |

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| FPA-18 | Broadband Preamplifier Frequency range: 1GHz - 18GHz typ gain: 33dB Adjustment on 22mm antenna pipe includes adapter cable SMA-N includes power supply 12V 250mA Optional: battery pack with charger |
| FPA-BAT | Battery pack for FPA-18 includes charger |
| FPD-01PS | Polarization switch incl. Power supply kit for automatic polarization switching between vertical and horizontal polarization by means of an electrical drive. Useable/mountable with/to any tripod or antenna stand with 3/8" thread. Antenna tube fixture with a diameter of 22mm. Max. antenna weight: 5kg Recommended antenna tripod: Type FSM-1.6 or FSM-2.0 |

| ANTENNA MASTS / ANTENNA ADAPTERS / POLARIZATION SWITCH / CONTROLLER | |
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| FSM-1.6 | Antenna Stand Height manual adjustable from 0.9m to 1.6m Polarization: manual vertical/ horizontal |
| FSM-2.0 | Antenna Stand Height manual adjustable from 1.2m to 2.0m Polarization: manual vertical/ horizontal |
| FSM-2.5 | Antenna Stand. Height manual adjustable from 1.2m to 2.5m Polarization: manual vertical/ horizontal |
| FSM-4.0 | Manual Mast Height manual adjustable from 0.9m to 4.0m Polarization: manual vertical/ horizontal |
| FSM-EXT | Extension for Tripod FSM |
| PPS | Pneumatical switching of polarization of FSM-1.6 and FSM-2.0 Polarization: vertical/ horizontal (an additional pneumatical switch is necessary) |
| MA | Mast adapter to Frankonia Mast/ Tripod for antenna with 22mm rod |
| MAD | Mast adapter for FSM-1.6 and FSM-2.0 for 22mm rod double stacked antenna |
| MAS | Mast adapter for FSM-1.6 and FSM-2.0 for 22mm antenna rods |
| MAF | Mast adapter for FSM-1.6 and FSM-2.0 for 22mm antenna rods and FSM-EP1 |
| FAM 2-4 | Automatic Antenna Mast DIN EN 55022, CISPR 22 Class B Type: FAM 2-4 Antenna Height Scan electrical: 0.9m - 4m Polarization electric: 0°-90° vernier adjustment possible Polarization accuracy: 0.2° Total height: 4.5m External dimensions: 1.2m x 0.9m x 4.5m Weight: 85kg Maximum antenna weight 12kg |
| FAM 2-6 | Automatic Antenna Mast DIN EN 55022, CISPR 22 Class B Type: FAM 2-6 Height scan electrical: 0.9m bis 6m Polarization accuracy: ± 5mm Polarization electric: 0°-90° vernier adjustment possible Polarization accuracy: 0.2° Total height: 6.5m External dimensions: 1.2m x 0.9m x 6.5m Weight: 92kg Maximum antenna weight: 12kg |
| FPD-01 | Polarization Switching Unit Type FPD-01 for automatic polarization switching between vertical and horizontal polarization by means of an electrical drive. Useable/mountable with/to any tripod or antenna stand with 3/8" thread. Antenna tube fixture with a diameter of 22mm. Maximum antenna weight: 5kg Recommended antenna tripod: Type FSM-1.6 or FSM-2.0 |

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| FC-06 | <p>Controller, type FC-06 for the control of Frankonia antenna masts and turntables. The standard version allows the control of one antenna mast and one turntable (optional up to 6 devices). Fiber optic connectors from controller to turntable and antenna mast : FSMA, 660nm Interfaces: GPIB (IEEE 488.2), USB Included in the delivery: - Control-, Display Software - Fiber optics</p> |
| FC-06P | <p>Controller, type FC-06 includes 24V output for the control of Frankonia antenna masts and turntables. The standard version allows the control of one antenna mast, one turntable and one Polarization unit (switch) (optional up to 6 devices). Fiber optic connectors from controller to turntable and antenna mast : FSMA, 660nm Interfaces: GPIB (IEEE 488.2), USB Included in the delivery: - Control-, Display Software - Fiber optics</p> |
| FIELD-STRENGTH METERS - EFS | |
| EFS-LASER | <p>Field-strength-meter - Laser E-Field Probe Frequency range: 10kHz to 6GHz Measuring range: 0,1V/m to 10.000V/m Resolution: <0,01dB Measuring data: X, Y, Z, total field strength Isotropy: <1dB @900MHz</p> |
| EFS-10 | <p>Field-strength-meter E-Field Probe Frequency range: 10kHz to 9,25GHz Measuring range: 0,5V/m to 500V/m Resolution: 0,01V/m Measuring data: X, Y, Z, total field strength Isotropy: 0,5dB (typ. 0,3dB) @50MHz Operation time: Maximum 80h Consisting of: E-field probe (weight 25g, diameter 53mm) 10m fiber optical cable to RS-232-adaptor includes RS232-USB adaptor Battery charger Calibration report with data</p> |
| EFS-100 | <p>Field-strength-meter E-Field Probe Frequency range: 100kHz to 9,25GHz Measuring range: 0,14V/m to 140V/m Resolution: 0,01V/m Measuring data: X, Y, Z, total field strength Isotropy: 0,5dB (typ. 0,3dB) @50MHz Operation time: Maximum 80h Consisting of: E-field probe (weight 25g, diameter 53mm) 10m fiber optical cable to RS-232-adaptor includes RS232-USB adaptor Battery charger Calibration report with data</p> |

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| EFS-5 | <p>Field-strength-meter E-Field Probe Frequency range: 5kHz to 9,25GHz Measuring range: 1,5V/m to 1500V/m Resolution: 0,01V/m Measuring data: X, Y, Z, total field strength Isotropy: 0,5dB (typ. 0,3dB) @50MHz Operation time: Maximum 80h Consisting of: E-field probe (weight 25g, diameter 53mm) 10m fiber optical cable to RS-232-adaptor includes RS232-USB adaptor Battery charger Calibration report with data</p> |
| EFS-300 | <p>Field-strength-meter - E-Field Probe Frequency range: 300kHz to 18GHz Measuring range: 0,17V/m to 170V/m Resolution: 0,01V/m Measuring data: X, Y, Z, total field strength Isotropy: 0,5dB (typ. 0,3dB) @50MHz Operation time: Maximum 80h Consisting of: E-field probe (weight 25g, diameter 53mm) 10m fiber optical cable to RS-232-adaptor includes RS232-USB adaptor Battery charger Calibration report with data</p> |
| EFS-OF20 | Optical fiber 20m for field strength meter EFS-10/ EFS-100 |
| EFS-OF40 | Optical fiber 40m for field strength meter EFS-10/ EFS-100 |
| EFS-500 | The Frankonia EFS field-strength-meters especially have been designed for field strength measurements / field homogeneity measurements during radiated immunity tests according to IEC/EN 61000-4-3. |
| EFS-SWITCH | Switching Relay for up to 10 pcs. of field meters type EFS. Connection of up to 5 pcs EFS-SWITCH possible. Interface to PC: COM , USB |
| EFS-TR | Tripod for Field strength sensor EFS, made from plastics/ wood Height adjustable from 0,8m to 2,3m for measurement of Homogeneous field acc. IEC/ EN 61000-4-3 |
| TE-ES | Tripod for Field strength sensors, cameras, small antennas made from wood with extension rod. Height adjustable from 0,8m to 2,3m for measurement of homogeneous field acc. IEC/ EN 61000-4-3 includes floor spider |
| SOFTWARE | |
| BCI-LAB | Control Software for immunity tests acc. to DIN ISO 11452-4 for WINDOWS XP, 7 |
| BCI-LAB UP | Upgrade 5.xx of RF-LAB Upgrade contains following new features: >Adaptation to the latest standards >improved spec. of equipment >improved Display on monitor -Windows XP, 7 and much more Additional driver of measuring device in SW: CD-Lab/ RF-LAB |

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| CD/RF-LAB | Control Software. Software package, consisting of control software - CD-LAB for immunity tests acc. to IEC 61000-4-6 and - RF-LAB for immunity tests acc. to IEC 61000-4-3, -Windows XP, 7 |
| CD-LAB | Control Software for immunity test acc. to IEC 61000-4-6, for WINDOWS 2000, XP |
| CD-LAB UP | Upgrade to 5.xx of CD-LAB Upgrade contains following new features: >Adaptation to the latest standards >improved spec. of equipment >improved Display on monitor -Windows XP, 7 and much more |
| CD-RF-LAB UP | Upgrade 5.x of RF- and CD-LAB The update is always the latest version. Upgrade contains following new features: >Adaptation to the newest standards >improved spec. of equipment >improved Display on monitor -Windows XP, 7 and much more |
| EM-LAB | Control Software for conducted and radiated emission measurements acc. to CISPR-, FCC-, EN-Standards, for WINDOWS XP, 7 |
| EM-LAB-AUTO | Option: Automation of EMI-Measurements with EM-LAB for control of masts, turntables, ...for WINDOWS XP, 7 |
| RF-LAB | Control Software for immunity tests acc. to IEC 61000-4-3, ISO11452-2, etc. and measurement of the uniform area, for WINDOWS XP, 7 |
| RF-LAB UP | Upgrade 5.xx of RF-LAB Upgrade contains following new features: >Adaptation to the latest standards >improved spec. of equipment >improved Display on monitor -Windows XP, 7 and much more |
| RF-LAB-A | Additional module: Audio break-through measurements acc. to ETSI EN301489. This option requires the basic version of the software RF-LAB |
| EMISSION | |
| CORE-6 | EMI receiver For conducted and radiated emission measurements. Compliant acc. to CISPR-16-1-1, MIL-STD-461F, VDE 0876 and ANSI C 63.4 Frequency range: 9kHz to 6GHz Measuring modes: Automatic Scan, Spectrum mode, manual mode Detectors: Peak, Quasi-Peak, Average, RMS, RMS-average, CISPR-average -Operation with a standard PC -includes comfortable measuring and report software "EM-Lab" -Free software updates -CISPR and MIL-STD Filter (optional) -Integrated Pre-amplifier (20dB up to 1GHz, 15dB >1GHz) -Integrated pulse-limiter up to 30MHz I/O Interface: USB, RS-232, user port for accessories Housing: 19" Rack unit, 1RU Dimensions: 482mm x 45mm x 362mm (BXHXT) Weight: 5kg |
| CORE-MIL | Option: compliance to military standards |
| CORE-FFT | Option: FFT-Analysis for measuring receiver CORE-6 |

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| C2-16 | Line Impedance Stabilization Network (LISN) compliant to CISPR 16; Frequency range: 9kHz- 30MHz; Characteristics: (50 μ H+5 Ohm)//50 Ohm; Phases: 1+N; Manual and automatic switch of phases; Max AC-voltage: 250V rms; Current: 2 x 16A |
| C4-32 | Line impedance stabilization network (LISN) compliant to CISPR 16; Frequency range: 9kHz- 30MHz; Characteristics: (50 μ H+5 Ohm)//50 Ohm; Phases: 3+N; Manual and automatic switch of phases; Max AC-voltage: 250V rms; Current: 4 x 32A |
| ACF-01B | Absorption Power Clamp for measurement of absorption power acc. to CISPR 14, CISPR 16 and EN 55014-1 Frequency range: 30 - 1000Mhz Ball-bearing and silicon covered wheels for permanent usage |
| CVP-1 | RF-Probe Input resistance: 1500 Ohm Frequency range: 9kHz - 30MHz Attenuation: 30dB |
| LVVL | Van Veen Loop Antenna For magnetic-field measurements acc. to EN 55015/CISPR 15 Frequency-range: 9kHz- 30MHz Includes all three axes with wooden frame and all connecting cables. Each antenna individually calibrated with calibration certificate. Calibration kit optional. Diameter: 2,0m Dimensions: 2,1m x 2,1m x 2,6m (h) Output: 50 Ohms BNC |
| C-LVVL | Calibration kit for Van Veen Loop Antenna |
| NFS-100 | Near-Field-Probe-Set Consisting of: - 1 pc. E-field-probe, 1MHz to 500MHz, BNC-connector, 15cm rod - 1 pc. H-field-probe, 1MHz to 500MHz, BNC-connector, 50mm diameter |
| Emission Reference Source - ERS | |
| RSE-1000 | Emission Reference Source Including calibration data, measured on a full-compliance OATS acc. to CISPR 16-1-4 in 3,0m measuring distance in vertical and horizontal polarization. The comb generator radiates every 2Mhz a precise peak over the frequency-range from 30MHz to 1000MHz. |

| GTEM-CELLS & ACCESSORIES | |
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| GTEM 250 | <p>GTEM-Cell Frequency range: 100kHz to 20GHz Maximum power input, W continuous/pulsed*:500*/1000 Dimensions: 1.27m x 0.64m x 0.44m (L x W x H) Door size: 30cm x 23cm (WXH) Maximum EUT-Size: 20cm x 20cm x 15cm (L x W x H) Size of uniform area (+/-3dB <1GHz): 15cm x 15cm x 10cm (L x W x H) Septum height: 250mm Input impedance: 50 ohms / Input connector N includes feed-thru box equipped with: 1 pc. 2x6A power line filter incl 1 pc. socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. coax-feed-thru, type N 2 pcs. coax-feed-thru, type SMA Weight: ca. 30kg Packing costs are included. Assembly costs are not included.</p> |
| GTEM 400 | <p>GTEM Cell Frequency range: 100kHz to 20GHz Maximum power-input, W continuous/pulsed*:500*/1000 Dimensions:2.20m x1.22m x 0.83m (LxWxH) Door size: 40cm x 40cm (WxH) Maximum EUT-Size: 35cm x 40cm x 25cm (LxWxH) Size of uniform area (+/-3dB <1GHz): 25cm x 30cm x 13cm (LxWxH) Septum height: 400mm Input impedance: 50 ohms / Input connector N includes feed-thru box 1 pc. 2x10A power line filter incl 1 pc. socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. coax-feed-thru, type N 2 pc. coax-feed-thru, type SMA Weight: 120kg includes wheeled undercarriage Packing costs are included. Assembly costs are not included.</p> |
| GTEM 500 | <p>GTEM-Cell Frequency range: 100kHz to 20GHz Maximum power-input, W continuous/pulsed*:500*/1000 Dimensions: 3.00m x1.68m x 1.15m (L x W x H) Door size: 40cm x 40cm (WxH) Maximum EUT-Size: 40cm x 40cm x 30cm (L x W x H) Size of uniform area (+/-3dB <1GHz): 30cm x 35cm x 17cm (L x W x H) Septum height: 500mm Input impedance: 50 ohms / Input connector N includes feed-thru box 1 pc. 2x10A power line filter incl 1 pc. socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. coax-feed-thru, type N 2 pcs. coax-feed-thru, type SMA 1 pc. unequipped technical panel Weight: 250kg includes wheeled undercarriage Packing costs are included. Assembly costs are not included.</p> |

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| GTEM 750 | <p>GTEM-Cell Frequency range: 100kHz to 20GHz Maximum power-input, W continuous/pulsed*:700*/1500 Dimensions: 4.0m x 2.20m x 1.50m (L x W x H) Door size: 60cm x 60cm (W x H) Maximum EUT-Size: 60cm x 60cm x 50cm (L x W x H) Size of uniform area (+/-3dB <1GHz): 45cm x 45cm x 25cm (L x W x H) Septum height: 750mm Input impedance: 50 ohms / input connector N includes feed-thru box 1 pc. 2x10A power line filter incl 1 pc. Socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. coax-feed-thru, type N 2 pcs. coax-feed-thru, type SMA 2 pcs. unequipped technical panels includes wheeled undercarriage Weight: 400kg Packing costs are included. Assembly costs are not included.</p> |
| GTEM 1000 | <p>GTEM-Cell Frequency range: 100kHz to 20GHz Maximum power input, W continuous/*pulsed:700W*/ 1500W Dimensions: 5.00m x 2.71m x 1.88m (L x W x H) Door size: 80cm x 80cm (W x H) Maximum EUT-Size: 75cm x 75cm x 70cm (L x W x H) Size of uniform area (+/-3dB <1GHz): 60cm x 60cm x 30cm (L x W x H) Septum height: 1.000mm Input impedance: 50 ohms / input connector N includes feed-thru box 1 pc. 2x10A power line filter incl 1 pc. Socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. Coax-feed-thru, type "N" 2 pcs. Coax-feed-thru, type "SMA" 2 pcs. unequipped technical panels includes wheeled undercarriage Weight: ca. 700kg Packing costs are included. Assembly costs are not included.</p> |
| GTEM 1250 | <p>GTEM-Cell Frequency range: 100kHz to 20GHz Maximum power-input; W continuous/*pulsed:800/1200* Dimensions: 6.10m x 3.20mx 2.15m (L x W x H) Door size: 80cm x 110cm (W x H) Maximum EUT-Size: 95cm x 95cm x 85cm (L x W x H) Size of uniform area (+/-3dB < 1GHz): 75cm x 75cm x 42cm (L x W x H) Septum height: 1.250 Input impedance: 50 ohms / input connector N includes feed-thru box 1 pc. 2x10A power line filter incl 1 pc. socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. coax-feed-thru, type N 2 pcs. coax-feed-thru, type SMA includes wheeled undercarriage 1 pc. unequipped technical panel Weight: 850kg Packing costs are included. Assembly costs are not included.</p> |

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| GTEM 1500 | <p>GTEM-Cell Frequency range: 100kHz to 20GHz Maximum power-input, W continuous/*pulsed:850/1300* Dimensions: 7.10m x 3.81m x 2.50m (L x W x H) Door size: 0.80m x 1.20m (W x H) Maximum EUT-Size: (L x W x H) 1.20m x 1.20m x 1.00m Size of uniform area (+/-3dB <1GHz): 1.00m x 1.00m x 0.50m Septum height: 1.500mm Input impedance: 50 ohms / input connector N includes feed-thru box 1 pc. 2x10A power line filter incl 1 pc. socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. coax-feed-thru, type N 2 pcs. coax-feed-thru, type SMA 1 pc. unequipped technical panel includes wheeled undercarriage Weight: 1000kg Packing costs are included. Assembly costs are not included.</p> |
| GTEM 1750 | <p>GTEM-Cell Frequency range: 100kHz to 20GHz Maximum power-input, W continuous/*pulsed:900/1400* Dimensions: 8.10m x 4.30m x 2.80m (L x W x H) Door size: 0.80m x 1.30m (W x H) Maximum EUT-Size: (L x W x H) 1.40m x 1.40m x 1.15m Size of uniform area (+/-3dB <1GHz): 1.25m x 1.25m x 0.58m Septum height: 1.750mm Input impedance: 50 ohms / input connector N includes feed-thru box 1 pc. 2x10A power line filter incl 1 pc. socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. coax-feed-thru, type N 2 pcs. coax-feed-thru, type SMA 2 pcs. unequipped technical panels includes wheeled undercarriage Weight: 1300kg Packing costs are included. Assembly costs are not included.</p> |
| GTEM 2000 | <p>GTEM-Cell Frequency range: 100kHz to 20GHz Maximum power-input, W continuous/*pulsed: 1000/1600* Dimensions: 9.10m x 4.84m x 3.14m (L x W x H) Door size: 0.80m x 1.60m (W x H) Maximum EUT-Size: (L x W x H)1,75m x 1,75m x 1,30m Size of uniform area (+/-3dB <1GHz): 1.50m x 1.50m x 0.65m Septum height: 2.000mm Input impedance: 50 ohms / input connector N includes feed-thru box 1 pc. 2x10A power line filter incl 1 pc. socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. coax-feed-thru, type N 2 pcs. coax-feed-thru, type SMA 2 pcs. unequipped technical panels includes wheeled undercarriage Weight: 1650kg Packing costs are included. Assembly costs are not included.</p> |
| GTEM-B01 | OPTION B01: EIA 7/8" Input Connector (Maximum 3GHz) |

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| GTEM-B02 | OPTION B02: EIA 7/16" Input Connector (Maximum 3GHz) |
| GTEM-B04 | OPTION B04: Upgrade Input Power 1400W (up to 3GHz) The max. input power is limited by the specification of the max input power of the selected GTEM |
| GTEM-B05 | OPTION B05: fibre optical feed-thru (3 Pairs) |
| GTEM-B06 | OPTION B06: N-Feed thru |
| GTEM-B07 | OPTION B04: SMA-feed thru |
| GTEM-B08 | OPTION B08: Additional power socket for EUT |
| GTEM-B09 | OPTION B09: Internal illumination (Halogen, 50 W) |
| GTEM-B09L | OPTION B09L: Internal illumination (LED, 20 W) |
| GTEM-B10 | OPTION B10: AC line filter 16A/5 wires |
| GTEM-B11 | OPTION B11: EMI-Filter Upgrade 2x10A to 4x32A 440V/ 250V AC/ DC Only for GTEM 750/1000/ 1250/ 1500/ 1750/2000 |
| GTEM-B12 | OPTION B12: Filter 4 x 64A, 440V/ 250V AC/ DC Only for GTEM 750/1000/ 1250/ 1500/ 1750/2000 |
| GTEM-B13 | OPTION B13: Interlock relay at the door |
| GTEM-B14 | OPTION B14: DSub Signal Line Filter (25 pin) |
| GTEM-B15 | OPTION B15: Second door close to input Only for GTEM 750/1000/ 1250/ 1500/ 1750/2000 |
| GTEM-B16 | OPTION B16: Window in door Diameter 200mm |
| GTEM-B17 | OPTION B17: Gas/ Water feed thru panel |
| GTEM-B18 | OPTION B18: Honeycomb Not available for GTEM-250 |
| GTEM-B19 | OPTION B19: Fans (2 pcs) on technical panel Not available for GTEM-250 |
| GTEM-B20 | OPTION B20: Door for tests acc. to SAE J1752/3 Only for GTEM 750/1000/ 1250/ 1500/ 1750/2000 |
| GTEM-B21 | OPTION B21: Wheeled Undercarriage (GTEM 250) |
| GTEM-B23 | OPTION B23: Vertical positioning turn of door position, plastic table over pyramids only for GTEM 250/ 500 |
| GTEM-B25 | OPTION B25: 9 pin DSUB Filter |
| GTEM-B26 | OPTION B26: Integrated circuit testing |
| GTEM-B27 | OPTION B27: installation panel (not equipped) |
| GTEM-B28 | OPTION B28: Fan kit includes channel for heat sink |
| GTEM-B29 | OPTION B29: fiber optical feed through (1 pair) |
| GTEM-B30 | OPTION B30: Input Power 1600W (3GHz) only for GTEM-500 to GTEM 2000 |
| GTEM-B31 | OPTION B30: Input Power 1000W (3GHz) only for GTEM-250 |
| GTEM-B32 | OPTION B32: fibre optical feed-thru (6 Pairs) |
| MAN-1000M | Manually operated EUT-manipulator (x-y-z) for GTEM-1000 The FRANKONIA GTEM EUT-manipulator is a solution for easily rotating the EUT into the three orthogonal axis positions acc. to IEC/EN 61000-4-20. The EUT can be rotated by 120 degrees and optionally in 5, 10 and 60 degree increments. Maximum EUT weight: 25kg Maximum EUT size: 33cm x 33cm x 33cm |
| MAN-1250M | Manually operated EUT-manipulator (x-y-z) for GTEM-1250. The FRANKONIA GTEM EUT-manipulator is a solution for easily rotating the EUT into the three orthogonal axis positions acc. to IEC/EN 61000-4-20. The EUT can be rotated by 120 degrees and optionally in 5, 10 and 60 degree increments. Maximum EUT weight: 25kg Maximum EUT size: 41cm x 41cm x 41cm |

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| MAN-1500M | <p>Manually operated EUT-manipulator (x-y-z) for GTEM-1500. The FRANKONIA GTEM EUT-manipulator is a solution for easily rotating the EUT into the three orthogonal axis positions acc. to IEC/EN 61000-4-20. The EUT can be rotated by 120 degrees and optionally in 5, 10 and 60 degree increments. Maximum EUT weight: 25kg Maximum EUT size: 50cm x 50cm x 50cm</p> |
| MAN-1750M | <p>Manually operated EUT-manipulator (x-y-z) for GTEM-1750. The FRANKONIA GTEM EUT-manipulator is a solution for easily rotating the EUT into the three orthogonal axis positions acc. to IEC/EN 61000-4-20. The EUT can be rotated by 120 degrees and optionally in 5, 10 and 60 degree increments. Maximum EUT weight: 30kg Maximum EUT size: 60cm x 60cm x 60cm</p> |
| MAN-500M | <p>Manually operated EUT-manipulator (x-y-z) for GTEM-500 The FRANKONIA GTEM EUT-manipulator is a solution for easily rotating the EUT into the three orthogonal axis positions acc. to IEC/EN 61000-4-20. The EUT can be rotated by 120 degrees and optionally in 5, 10 and 60 degree increments. Maximum EUT weight: 10kg Maximum EUT size: 16.7cm x 16.7cm x 16.7cm</p> |
| MAN-750M | <p>Manually operated EUT-manipulator (x-y-z) for GTEM-750. The FRANKONIA GTEM EUT-manipulator is a solution for easily rotating the EUT into the three orthogonal axis positions acc. to IEC/EN 61000-4-20. The EUT can be rotated by 120 degrees and optionally in 5, 10 and 60 degree increments. Maximum EUT weight: 15kg Maximum EUT size: 25cm x 25cm x 25cm</p> |
| OPEN TEM-CELLS | |
| TEM 220 | <p>Open TEM-Cell, type TEM 220 for immunity tests on automotive components acc. to ISO 11452-3 and pre-compliance emission measurements. Frequency-range: DC - 220MHz Height under coupling plate: 333mm Maximum field-strength (1,5kW input): 800V/m Maximum input power: 1,5kW Dimensions: 1.800mm x 1.600mm x 730mm (LXWXH) Weight: 55kg Packaging costs are included</p> |
| TEM 500 | <p>Open TEM-Cell, type TEM 500 for immunity tests on automotive components acc. to ISO 11452-3 and pre-compliance emission measurements. Frequency-range: DC - 500MHz Height under coupling plate: 147mm Maximum field-strength (1kW input): 1.550V/m Maximum input power: 1kW Dimensions: 1.020mm x 900mm x 360mm (LXWXH) Weight: 13,5kg</p> |
| TEM 1000 | <p>Open TEM-Cell, type TEM 1000 for immunity tests on automotive components acc. to ISO 11452-3 and pre-compliance emission measurements. Frequency-range: DC - 1GHz Height under coupling plate: 73mm Maximum field-strength (1kW input): 2.700V/m Maximum input power: 1kW Dimensions: 540mm x 450mm x 168mm (LXWXH) Weight: 3,5kg Packaging costs are included</p> |

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| TEM 3000 | <p>Open TEM-Cell, type TEM 3000 for immunity tests on automotive components acc. to ISO 11452-3 and pre-compliance emission measurements.</p> <p>Frequency-range: DC - 3GHz Height under coupling plate: 25mm Maximum field-strength (400W input): 5,6kV/m Maximum input power: 400W Dimensions: 440mm x 180mm x 80mm (LXWXH) Weight: 1.1kg</p> <p>Packaging costs are included</p> |
| STRIP LINES | |
| SR50/1000 | <p>Strip line, type SR50/1000 Strip-line for immunity-tests acc. to DIN/ISO 11452-5, 50 Ohm - version. Frequency-range: DC to 1GHz Maximum input-power: 1000W (long term) Impedance: 50 Ohm (+/- < 5 Ohm) Wave impedance: 377 Ohm VSWR: better than 1,22 up to 1GHz Dimensions: 4300mm x 1500mm x 1050mm (LXWXH) Height of the table: 950mm Weight: approx. 140kg includes rotating metallic table. For storage the strip line can be divided in parts 2 x (2150mm x 850mm x 1650mm). The packaging costs of the strip line in a wooden</p> |
| SR 90/1000 | <p>Strip-line Strip-line for immunity-tests acc. to DIN/ISO 11452-5, 90 Ohm - version. Frequency-range: DC to 1GHz Maximum input-power: 100W (long term); (>100W with impedance adapter) Impedance: 90 Ohm (+4/ -6 Ohm) Wave impedance: 377 Ohm VSWR: better than 1,92 up to 1GHz Dimensions: 3500mm x 900mm x 1000mm (LXWXH) Height of the table: 850mm Weight: approx. 90kg includes Rotating metallic table. Optional: 50 to 90 Ohm adapter The packaging costs of the strip line in a wooden box is included</p> |
| SR1000-50/20 | <p>Strip line, Typ SR1000-50/20 Strip line for immunity-tests acc. to DIN/ISO 11452-5, 50 Ohm - version. Height under the plate: 20cm Frequency-range: DC to 1GHz Maximum input-power: 1000W (long term) Impedance: 50 Ohm (+/- < 5 Ohm) Wave impedance: 377 Ohm VSWR: better than 1,1 up to 1GHz Dimensions: 4300mm x 1500mm x 1050mm (LXWXH) Height of the table: 900mm Weight: approx. 140kg includes Rotating metallic table. For storage the strip line can be divided in parts 2 x (2150mm x 850mm x 1650mm). The packaging costs of the strip line in a wooden box is included</p> |
| SRA5090 | Adapter 50/90 Ohm |

| TESTING TABLES (All Tables ship from China) | |
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| KFZ-TI | <p>Test Table with ground-plane Wooden test table (without any metal parts) Dimensions: 2.5m x1.0m x 0.9m, includes Ground-plane (can be taken away) is made from 1.25mm thick, hot galvanized steel sheet. includes copper belts guarantee a low-resistive ground contact to the contact strip at the chamber wall. Length of copper belts: 0.5m DC-Resistance Table- Chamber: < 2.5m ohms table is acc. to ISO 11452 und CISPR 25.</p> |
| KFZ-KL | <p>Contact Strip Contact strip for electrical contact from the ground plane of the test table to the shielding. The contact strip is mounted between two absorber rows and has a broad contact to the shielding panel. The strip consists of 2 rows of Cu-Be springs. Copper belts (cables) are clamped into the slot to make electrical contact. Length: 2.5m</p> |
| MT 1.0X0.8 | <p>Low Reflexion Testing Table acc. to CISPR 22, CISPR 32 Dimensions (LxWxH): 1000mm x 800mm x 800mm Material: Styropor ESP37 Maximum Load: 200kg Color: light grey (RAL 7035) Cover material: PVC Weight 20kg Packaging costs are not included.</p> |
| MT 1.5X1.0 | <p>Low Reflexion Testing Table acc. to CISPR 22 Dimensions (LxWxH): 1500mm x 1000mm x 800mm Footprint: 1.200mm diameter (suitable for turntables with 1.2 m diameter) Material: Styropor ESP37 Maximum Load: 200kg Color: light grey (RAL 7035) Cover material: PVC Packaging costs are not included.</p> |
| MT 1.5X1.2 | <p>Low Reflexion Testing Table acc. to CISPR 22 Dimensions (LxWxH): 1500mm x 1200mm x 800mm Material: Styropor ESP37 Maximum Load: 200kg Color: light grey (RAL 7035) Cover material: PVC Packaging costs are not included.</p> |
| MT-R 1.5 X 0.8 | <p>Low Reflexion Testing Table acc. to CISPR 22 Diameter:1500mm Height: 800mm Material: Styropor ESP37 Max. Load: 200kg Color: light grey (RAL Packaging costs are not included.</p> |

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| MT 2.0X1.0 | <p>Low Reflexion Testing Table acc. to CISPR 22 Dimensions (LxWxH): 2000mm x 1000mm x 800mm Material: Styropor ESP37 Maximum Load: 200kg Color: light grey (RAL 7035) Cover material: PVC Packaging costs are not included.</p> |
| MT 2.0X1.2 | <p>Low Reflexion Testing Table acc. to CISPR 22 Dimensions (LxWxH): 2000mm x 1200mm x 800mm Material: Styropor ESP37 Maximum Load: 200kg Color: light grey (RAL 7035) Cover material: PVC Packaging costs are not included.</p> |
| FREESTANDING TURNTABLE FTF (All Tables ship from China) | |
| FTM-0,6-0,2 | <p>Turntable, freestanding Type: FTM-0,6-0,3 Mobile turntable with two handles for flexible or fixed installation. Surface cover plate: 8,0mm aluminum Diameter: 0,6m Maximum load: 200kg Slewing range: +200°/-200° Rotational speed: 0,5 rpm - 3 rpm, adjustable in 30 steps Accuracy: 0,1°</p> |
| FTM-0,8-0,2 | <p>Turntable, freestanding Type: FTM-0,8-0,3 Mobile turntable with two handles for flexible or fixed installation. Surface cover plate: 8,0mm aluminum Diameter: 0,8m Maximum load: 200kg Slewing range: +200°/-200° Rotational speed: 0,5 rpm - 3 rpm, adjustable in 30 steps Accuracy: 0,1°</p> |
| FTF-0,6-0,3 | <p>Turntable, freestanding Type: FTF-0,6-0,3 Diameter: 600mm or 800mm (to be chosen) (please specify with the order which diameter) Max. Load: 300kg Height:: 160mm with adjustable stands 152mm without stands Angel of rotation: +/- 360 Grad Positioning accuracy: +/- 0,5 Grad Controllable with the included software or with external controller, type FC-05 (connection via optical fiber) Accessories included: - Control software - Optical Converter for USB - 10m optical fiber - Power supply cable, USB cable</p> |
| FTF-1.5-0.5 | <p>Turn-Table Metallic surface, electrical contacted to the Ground-plane, for step less installation into the raised floor. Diameter: 1,50m Max. load: 500kg Accuracy: 0,1°</p> |

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| FC-05 | <p>Controller, type FC-05 for the control of Frankonia antenna masts and turntables (max. 4 instruments). Fiber optic connectors from controller to turntable and antenna mast : FSMA, 660nm Interfaces: GPIB, USB Included in the delivery: - Control-, Display Software - Fiber optics</p> |
| FC-06 | <p>Controller, type FC-05 for the control of Frankonia antenna masts and turntables. The standard version allows the control of one antenna mast and one turntable (optional up to 6 devices). Fibre optic connectors from controller to turntable and antenna mast : FSMA, 660nm Interfaces: GPIB (IEEE 488.2), USB Included in the delivery: - Control-, Display Software - Fibre optics</p> |
| FC-06P | <p>Controller, type FC-06P incl. 24V output for the control of Frankonia antenna masts and turntables. The standard version allows the control of one antenna mast, one turntable and one Polarization unit (switch) (optional up to 6 devices). Fibre optic connectors from controller to turntable and antenna mast : FSMA, 660nm Interfaces: GPIB (IEEE 488.2), USB Included in the delivery: - Control-, Display Software - Fibre optics</p> |
| Frankonia Chambers | |
| AVTC | <p>AUTOMOTIVE VEHICLE TESTING CHAMBER - AVTC Anechoic chamber for vehicle testing</p> |
| ACTC | <p>AUTOMOTIVE COMPONENT TESTING CHAMBER - ACTC Anechoic chamber for testing of automotive components</p> |
| CHC | <p>CHC "COMPACT HYBRID CHAMBER" COMPACT ANECHOIC CHAMBER, LINED WITH FERRITE ABSORBERS AND PARTIALLY WITH HYBRID ABSORBERS FOR FULL COMPLIANCE IMMUNITY TESTS ACC. IEC (EN) 61000-4-3 AND PRE- COMPLIANCE EMISSION MEASUREMENTS, MEASURING DISTANCE: 3,0m FREQUENCY-RANGE: 26MHz to 18GHz CONSTRUCTED AS "SEMI-ANECHOIC CHAMBER" A: SHIELDING TECHNIQUE The shielding will be realized as a self-supporting, screwed modular construction. The individual shielding modules are manufactured from hot galvanized sheet steel of a constant thickness of 2mm, which are double-edged at the four sides. The max. dimensions of the individual panels are 3.000mm x 1.200mm (LXW). The perfect, RF-shielded and electrical connection of the individual modules among each other is guaranteed by use of wire mesh gaskets and a screw distance of 75mm. It can be easily assembled (disassembled if necessary) and offers a significant advantage when compared to welded solutions. The construction is totally self-supporting and independent with the main building. The floor of</p> |
| UCC | <p>UCC - Ultra Compact Hybrid Chamber, 1m test distance</p> |
| RACK | |
| RACK | <p>RACK 19" Rack for Installation of Test/Measuring Instruments, moveable on wheels, with front and rear cover. Incl. installation of instruments into rack and all small parts which are necessary for rack mounting</p> |
| KS-2A | <p>Cable-set and GPIB-interface for immunity test systems with 2 amplifiers. Consisting of: 1pc. "National Instruments" GPIB-interface 1set Bus cable and RF-cables The Control-PC is not included.</p> |

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| KS-EMI | Cable-set for EMI systems Consisting of: 1set Bus cable and RF-cables The Control-PC is not included. |
| Shielded Optic Converters | |
| OptoRS232-HS | OptoRS232-HS up to 100kBit/s |
| OptoRS485 | OptoRS485 up to 1Mbit/s |
| OptoCAN- HS | OptoCAN- HS High speed signal up to 1MBit/s |
| OptoUART | OptoUART (1RX, 1 TX datastream) with voltage level of 3,3V |
| OptoUSB2.0-RDIR | OptoUSB2.0-RDIR with HSD cable (2x2m) -480Mbits |
| OptoUSB 2.0 | OptoUSB 2.0 |

| Model # | HILO-TEST | |
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| | Product Description | Part # |
| Compact Units up to 5 kV Test Voltage: | | |
| EFTG 4510 | Burst Generator | 5202006 |
| CE-SURGE | Surge Generator | 5201016 |
| PFS 2516 | Power Fail Simulator | 5201001 |
| SESD 216 | ESD Generator 16KV | 5202001 |
| SESD 230 | ESD Generator 30 kV, Typ SESD 230 acc. to IEC 61000-4-2, 150pF/330 Ohm | 5202027 |
| SESD Accessories | | |
| SESD 3025 | Test Tip (metal part), air discharge, 30mm half ball | 5202018 |
| SESD 3026 | Test tip (metal part) " CON " with spring contact, 50 mm long. | 5202040 |
| SESD 271 | VCP vertical coupling plate incl. earth cable SESD 272 | 5202028 |
| SESD 272 | Earth cable with 2*470 kOhm resistor, 2m long. | 5202029 |
| SESD 8800-4 | ESD calibration set, 2 Ohm,4 GHz traceable to national standard | 5202024 |
| SESD 30 S 100 | Control software ESD,with optical interface and fiber optic cable 10m | 5202017 |
| CE-TESTER 5KV, 1,2/50us, 8/20us : | | |
| CE-TESTER 1 | CE-Tester 5" touch screen, Ethernet interface, Burst, Surge | 5201014 |
| CE-TESTER 2 | CE-TESTER, combined EMC-test unit with 5" touch screen: Burst: 0.2 - 5 kV, 5/50 ns Surge: 0-5kV, 1.2/50µs; 0-2.5kA,8/20µs Acc. to IEC 61000-4-4 and -4-5 Incl. Coupling-/Decoupling Network 240V/16A + Power fail switch: 250 Vac, 16 Aac. Ethernet interface Accessories : power cable, turn-key, safety connector, r/gr. connector, COM-GND, mains-in cable, schuko adapter box CE, instruction manual | 5201015 |
| Multi CE5 | | |
| Multi CE5 | Multi CE5, combined EMC-test unit Burst Surge Burst: 0.2 - 5 kV, 5/50 ns Surge: 0-5kV, 1.2/50µs; 0-2.5kA,8/20µs Incl. Coupling-/Decoupling Network 240V/16A, Incl. power cable, turn-key, safety interlock connector, ext. rd/gn connector, COM-GND, mains-in cable, schuko adapter box, instruction manual. | 5201020 |
| Coupling-/Decoupling Networks: | | |
| CDN 304 | Coupling-/Decoupling Network CDN 304 ± 5 kV, 1.2/50 µs, 10/700µs, 2* twisted pair 100V / 1A Accessories : inkl. 1 HV-IN connection cabel with plugs, 1 GND- cable, 10 plug bridges 19mm, 4 plug bridges 38mm, Instruction Manual | 5301006 |
| CDN 4416 | Burst, Surge, □ 5 kV, 4 lines 4*16A, 400V | 5301021 |
| CDN 4432 | Burst, Surge, □ 5 kV, 4 lines 4*32A, 400V | 5301022 |
| CDN 4463 | Burst, Surge, □ 5 kV, 4 lines 4*63A, 400V | 5301023 |
| CDN 2402 | Coupling-Decoupling network CDN 2402 ±2 kV, 1.2/50µs 4 data lines 48 V / 2 A control via generator front panel incl. HV cable, COM cable, mains cable, PE-cable, mains input, light guide, instruction manual. | 5301001 |
| CDN 2410 | Burst, Surge, □ 2.5 kV, 4 date lines 240V/10A | 5301015 |
| CDN 2802 | Burst, Surge, □ 2.5 kV, 4 date lines 240V/10A | 5301032 |
| CDN 10216 | for SURGE: up to 10 kV , 1.2/50 µs nominal voltage: 240V50-60 Hz, nominal current: 16A ac,/12A dc Incl. HV cable, COM cable, BNC cable, mains cable, 1 set of connecting leads, mains input/EUT output, light guide, instruction manual. | 5301036 |

| Accessories Compact Units: | | |
|--|---|---------|
| CE-Remote 3G | CE-Tester PC Software Program CE-Remote 3G with Ethernet media converter and power supply, light guide 5 m with Impulse Recording Function (IRF) in conjunction with Tektronix MDO DPO TDS 3000 series Protocol accordingly to ISO 17025 | 5201013 |
| EFTG-Remote | Software EFTG, Ethernet with IRF | 5202003 |
| SURGE-Remote | Software SURGE, Ethernet with IRF | 5202034 |
| EFTC 2012 | Capacitive Coupling Clamp for Burst / EFTG impulses. The Capacitive Coupling Clamp, EFTC 2012, provides the ability to couple Burst / EFT pulses to data lines. It can also be used for coupling to main lines where no CDN is available, for example high current lines >200 A. | 5201008 |
| VPS 250-16 | External Power Source VPS 250-16 for CE-Tester Un = 0 - 250 V, In = 16 A accessories included : -mains power cable 1,5 m long -BNC cable for control voltage Vc 0,5 m long -variac input: mains cable 1,5 m long -variac output: 3 lab. | 5201005 |
| HI 100 | HI 100 Helmholtz Coil / Inductor for magnetic field testing Acc. to IEC 61000-4-8/9. | 5201006 |
| SCK 105 | Surge Calibration Kit | 5302005 |
| BCK 400F | Burst Calibration Kit | 5302006 |
| Emergency Stop | Emergency Stop | 5204082 |
| EMC-Test Equipment Automotive : | | |
| CAR-SYS 14 I | CAR-Test System, 50A | 5207026 |
| CAR-SYS 14 II | CAR-Test System, 100A | 5207027 |
| CAR-SYS 14 III | CAR-Test System, 200A | 5207028 |
| CAR-SWITCH-TE 14 | CAR-SWITCH, 50A | 5207046 |
| CAR-SWITCH-TE 14 | CAR-SWITCH, 100A | 5207065 |
| CAR-SWITCH-TE 14 | CAR-SWITCH, 200A | 5207066 |
| CAR-PS 66-55 | Power supply / Amplifier, 66V/55A | 5207063 |
| CAR-PS 66-110 | Power supply / Amplifier, 66V/110A | 5207067 |
| CAR-PS 74-220 | Power supply / Amplifier, 74V/220A | 5207073 |
| CAR-SS-A1250-16E | Superimposed sinus ac Voltage Generator 30kHz 30Ap | 5207072 |
| PG 2804 | Load Dump Generator Test A+B | 5207058 |
| CAR FG20 | 19" Rack 20HE | 5207079 |
| CDN 2012 | Capacitive Coupling Clamp | 5207004 |
| PC Remote | Ethernet Interface | 5300068 |
| Car-Remote | Software Program Remote | 5207068 |
| SESD 30000 | Electro static discharge generator | 5202011 |
| SESD 30 R 2000 | Resistor module 2000 Ohm | 5202014 |
| SESD 30 C 330 | Capacity module 330 pF | 5202013 |

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|---------------------|--|---------|
| Industrial : | | |
| PG 7-250 | Combination wave generator, 7kV, 3,5kA | 5203030 |
| PG 10-504 | Combination wave generator, 10kV, 5kA | 5203016 |
| PG 12-360 | High Voltage Impulse Generator PG 12-360 For testing of solar modules 1 - 12 kV , 1.2/ 50 μ s, 160 J test sample capacity : 0 - 180 nF max. energy : 360J Accessories : keys, instruction manual, power cable, mains-in cable. | 5204051 |
| PG 12-400 | Combination Wave Generator PG 12-400 \pm 12 kV, 1.2/50 μ s, 400J Microprocessor control with 5" touch panel. Safety precautions acc. to VDE 0104, Incl. HV-cable, mains cable, safety connector, ext. red/green connector, lock key, HV output connector, instruction manual. | 5203036 |
| PG 12-804 | Combination wave generator, 12kV, 6kA | 5203022 |
| PG 20-100 | HV-Impulse generator PG 20-100 for testing of solar modules 2 - 20 kV , 1.2/ 50 μ s test sample capacity 10 - 180 nF max. energy 100 J Accessories : keys, instruction manual/ USB Stick, HV-cable, mains cable,earth cable, safety connector, red/green connector. | 5204074 |
| CCK20 | Capacitor calibration kit 50 nF, 50 nF, 33 nF, 23 nF Verfication box for PG 20-100 | 5204071 |
| PC Control | PC control software for PG generators with Ethernet media converter and power supply, light guide 5 m with Impulse Recording Function (IRF) in conjunction with Tektronix MDO DPO TDS 3000 series Protocol accordingly to ISO 17025 | 5205050 |
| PG 24-2500 | Combination wave generator, 24kV, 12kA | 5203017 |
| PG 24-2500 - Cover | Combination wave generator, 24kV, 12kA Cover on Top | 5300038 |
| CDN 6416 | Combination wave generator, 7kV, 4 lines, 3*400V | 5301025 |
| CDN 10416 | Combination wave generator, 10kV, 4 lines, 3*400V | 5301024 |
| CDN 12216 | Combination wave generator, 10kV, 2 lines. The capacitive Coupling-/Decoupling Network CDN 12216 is used in combination with the Surge generators PG 7-250, PG 10-504 or PG 12-804 and allows superimposition of surge test pulses to the single-phase power supply voltage of the device under test. | 5301028 |
| CDN 10216 | The capacitive Coupling-/Decoupling Network CDN 10216 is used in combination with the Surge generators PG 7-250, PG 10-504 or PG 12-804 and allows superimposition of surge test pulses to the single-phase power supply voltage of the device under test. | 5301036 |
| IPG 612T | Ring-wave generator | 5204009 |
| IPG 2554s | High-frequency disturbance test generator slow | 5208009 |
| IPG 2554sf | High-frequency disturbance test generator slow fast | 5208007 |
| IPG 2554f | Oscillatory Wave Generator IPG 2554 fast 3MHz/10MHz/30MHz, \pm 4 kV, 50 Ohm Acc. to IEC 61000-4-18 Polarity +/- Inkl. built-in coupling/decoupling network CDN 2554-16 Accessories : key, mains cable, instruction manual. | 5208011 |
| IPG 506 | Front-Shopped-wave generator | 5206021 |
| Telecom : | | |
| IPG 620 Cable | High-voltage pulse generator, 6kV, 1,2/50us | 5204028 |
| IPG 620 Test Cover | High-voltage pulse generator with test cover, 6kV, 1,2/50us | 5204041 |
| IPG 1050 Cable | High-voltage pulse generator, 10kV, | 5204011 |
| IPG 1050 Test Cover | High-voltage pulse generator with test cover, 10kV | 5204042 |

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|--|--|---------|
| PG 5-200-1 | High-Voltage Pulse Generator PG 5-200-1 ± 5 kV, 10/700 μ s, CCITT/ITU-T K17/K20/K22 Accessories : connector for safety interlock loop, red/green connector, HV cable, power cable, turn-key, instruction manual. | 5206033 |
| PG 5-200-2 | High-voltage pulse generator, 5kV, 10-700 | 5206008 |
| PG 6-364 | High-voltage pulse generator, 6kV | 5206010 |
| PG 10-1000 | High-voltage pulse generator, 10kV, 10-700 | 5206016 |
| PIG 1500 | Power induction generator | 5206022 |
| High-voltage pulse generators : | | |
| PG 10-200 | High Voltage Pulse Generator PG 10-200 - for testing of solar modules - 0.2 - 10 kV , 1.2/ 50 μ s, 250 J - test sample capacity : 10 - 180 nF Accessories : keys, instruction manual, power cable, mains-in cable. | 5204050 |
| IPG 605 cable | High-voltage pulse generator, 6kV | 5204032 |
| IPG 605 test cover | High-voltage pulse generator with test cover, 6kV | 5204043 |
| IPG 1012 cable | High-voltage pulse generator, 10kV | 5204012 |
| IPG 1012 test cover | High-voltage pulse generator with test cover, 10kV | 5204016 |
| IPG 1218 cable | High-voltage pulse generator, 12kV | 5204036 |
| IPG 1218 test cover | High-voltage pulse generator with test cover, 12kV | 5204030 |
| IPG 2025 cable | High-voltage pulse generator, 20kV | 5204053 |
| IPG 2025 test cover | High-voltage pulse generator with test cover, 20kV | 5204015 |
| IPG 2436 cable | High-voltage pulse generator, 24kV | 5204054 |
| IPG 2436 test cover | High-voltage pulse generator with test cover, 24kV | 5204039 |
| IPG 1201 cable | High-voltage pulse generator, 12kV | 5204047 |
| IPG 1201 test cover | High-voltage pulse generator with test cover, 12kV | 5204029 |
| IPG 255 cable | High-voltage pulse generator | 5204031 |
| IPG 255 test cover | High-voltage pulse generator with test cover | 5204035 |
| PC-Remote | Software program, Ethernet, Light guide, IRF | 5300002 |
| Software IPG 2554 Remote | Software program for IPG 2554 Remote. Includes light guide 5m, Ethernet PC interface, Power Supply | 5208008 |
| High-current pulse generators : | | |
| PG 6-200 | Surge current generator, 5 kA | 5205015 |
| PG 6-400 | Surge current generator, 10 kA | 5205016 |
| EMC 2015 | Pulse Generator System, different Impulses | 5205012 |
| PG 20-7000 / PG 20-7K | Current pulse generator, 50kA | 5205053 |
| AC- / DC test equipment | | |
| AC Tester | AC Tester 5KV | 5401002 |
| AC Tester 6 | AC Tester 10KV | 5401016 |
| HVTS 30-20 | AC Test set up | 5401006 |
| HVTS 30-40 | AC Test set up | 5401011 |
| HVTS 50-10 | AC Test set up | 5401003 |
| High Voltage divider : | | |
| HVT 10 RCR | High Voltage divider 11kV DC | 5104011 |
| HVT 20 RCR | High Voltage divider 22kV DC | 5104010 |
| HVT 40 RCR | High Voltage divider 40KV DC | 5104001 |
| HVT 80 RCR | High Voltage divider 80KV DC | 5104002 |
| HVT 120 RCR | High Voltage divider 120KV DC | 5104003 |
| HVT 160 RCR | High Voltage divider 160KV DC | 5104009 |
| HVT 240 RCR | High Voltage divider 240KV DC | 5104004 |
| HVT 300 RCR | High Voltage divider 300KV DC | 5104013 |
| High Voltage Measurement System | | |
| HVM 2015 | HVM 2015 - 10kV | 5101017 |
| HVM 2015 20KV | HVM 2015 – option 20kV | 5101015 |

| Sine Wave Pulse Generator | | |
|-----------------------------------|--|--|
| SPG 1.2-25000 | Sine Wave Pulse Generator - for impulse current tests on current conductors of watt-hour meters - semi-sinus wave : $T/2 = 10$ ms - 2 current ranges : 0.5 - 7.5 kA, 25 - 375 A - acc. to EN 50470-3 | |
| Calibration | | |
| 5300016 | Calibration for CE-TESTER/ WITHOUT POWER -- functional test -- calibration of the wave shape -- includes factory calibration report -- if during final testing an error will appear, we reserve the right to submit or modify an estimate of costs | |
| 5300012 | Final Testing for CDN2802 - Functional test - Calibration of the Wave Shape - includes factory calibration report - if during final testing an error will appear, we reserve the right to submit or modify an estimate of costs | |
| Final Testing for Burst | 5300069 | |
| Shipping Packaging Options | | |
| Pallet | Pallet | |
| Crate | Crate | |

| Model # | Intrix Product Description |
|--|---|
| Precompliance Single Phase, Two Wire, Artificial Mains, CISPR 16-1-2 LISN | |
| LIN16-2P | CISPR16 16A x 2 Path Precompliance 150 kHz – 30Mhz, 50 μ H + 5 Ohm 50 Ohm |
| Single Line, CISPR 16, DO-160 | |
| LIN100-1D | CISPR16, DO-160 Frequency Range 100kHz - 400MHz, Max load current 120A, Max. Input Voltage 700 V DC, AC @ 400Hz at 550 V, AC @ 890Hz at 300 V, Impedance at EUT Terminals 5uH 50Ohm 100Ax1 Path with 10uF feed through. N type connector |
| LIN200-1D | CISPR16, DO-160 Frequency Range 100kHz - 400MHz, Max load current 225A, Max. Input Voltage 700 V DC, AC @ 400Hz at 550 V, AC @ 890Hz at 300 V, Impedance at EUT Terminals 5uH 50Ohm 200Ax1 Path with 10uF feed through. N type connector |
| LIN400-1D | CISPR16, DO-160 Frequency Range 100kHz - 400MHz, Max load current 425A, Max. Input Voltage 700 V DC, AC @ 400Hz at 550 V, AC @ 890Hz at 300 V, Impedance at EUT Terminals 5uH 50Ohm 400Ax1 Path with 10uF feed through. N type connector |
| Single Line, CISPR 16, DO-160 , DEF STAN 59-411 | |
| LIN100-1D, DEF STA | IntrX LIN100-1D, DO-160, DEF STAN 59-411 Part (3), 5uH 500Ohm, 100Ax1 Path with 10uF feed through. |
| Single Conductor 1000A CISPR16 LISN | |
| LIN-1000 1D | CISPR16 Frequency Range 100 kHz - 150Mhz, Max load current 1000A, Max. Input Voltage 1200 V DC, AC @ 400 Hz at 550 V. N type connector |
| Single Phase, Two Wire, Artificial Mains, CISPR 16-1-2 LISNs | |
| LIN16-2 | CISPR16 16Ax2 Path 9 kHz – 30Mhz, 50 μ H + 5 Ohm 50 Ohm 250 μ H pre filter |
| LIN32-2 | CISPR16 32Ax2 Path 9 kHz – 30Mhz, 50 μ H + 5 Ohm 50 Ohm 250 μ H pre filter |
| LIN63-2 | CISPR16 63Ax2 Path 9 kHz – 30Mhz, 50 μ H + 5 Ohm 50 Ohm 250 μ H pre filter |
| Three Phase, Four Wire, Artificial Mains LISNs | |
| LIN20-4 | CISPR16 20Ax4 Path 9 kHz – 30Mhz, 50 μ H + 5 Ohm 50 Ohm 250 μ H pre filter |
| LIN32-4 | CISPR16 32Ax4 Path 9 kHz – 30Mhz, 50 μ H + 5 Ohm 50 Ohm 250 μ H pre filter |
| LIN63-4 | CISPR16 63Ax4 Path 9 kHz – 30Mhz, 50 μ H + 5 Ohm 50 Ohm 250 μ H pre filter |
| LIN100-4 | CISPR16 100Ax4 Path 9 kHz – 30Mhz, 50 μ H + 5 Ohm 50 Ohm 250 μ H pre filter |
| LIN200-4 | CISPR16 200Ax4 Path 9 kHz – 30Mhz, 50 μ H + 5 Ohm 50 Ohm |
| LIN400-4 | CISPR16 400Ax4 Path 9 kHz – 30Mhz, 50 μ H + 5 Ohm 50 Ohm |
| Line Impedance Stabilization Networks / Artificial Mains Network MIL 461 E/F, Single line | |
| LIN25-1M | MIL461 25Ax1 Path 9 kHz – 30Mhz, 50 μ H + 5 Ohm 50 Ohm |
| LIN75-1M | MIL461 75Ax1 Path 9 kHz – 30Mhz, 50 μ H + 5 Ohm 50 Ohm |
| LIN100-1M | MIL461 100Ax1 Path 9 kHz – 30Mhz, 50 μ H + 5 Ohm 50 Ohm |
| LIN200-1M | MIL461 200x1 Path 9 kHz – 30Mhz, 50 μ H + 5 Ohm 50 Ohm |
| LIN400-1M | MIL461 400x1 Path 9 kHz – 30Mhz, 50 μ H + 5 Ohm 50 Ohm |
| Single Line, CISPR 25, ISO 7637 Automotive LISNs | |
| LIN25-1A | Automotive CISPR 25 25Ax1 Path (5 μ H + 1 Ohm) 50 Ohm Switchable 50ohm load and 1uF capacitor. Compatible for BCI testing |
| LIN100-1A | Automotive CISPR 25 100Ax1 Path (5 μ H + 1 Ohm) 50 Ohm Switchable 50ohm load and 1uF capacitor. Compatible for BCI testing |
| LIN200-1A | Automotive CISPR 25 200Ax1 Path (5 μ H + 1 Ohm) 50 Ohm Switchable 50ohm load and 1uF capacitor. Compatible for BCI testing |
| LIN400-1A | Automotive CISPR 25 400Ax1 Path (5 μ H + 1 Ohm) 50 Ohm Switchable 50ohm load and 1uF capacitor. Compatible for BCI testing |

| | |
|---|---|
| Extended Warranty | |
| 3,4 or 5 Year Extended | Additional Warranty coverage at 5% of purchase price per year |
| Options, Accessories & Calibration | |
| | N Type connector |
| | Remote Control for EMI Rx with cable. Support for R&S Keysight Gauss and PMM receivers (receiver make and model to be specified at the time of order) |
| | High voltage 1000V DC & 750V AC Note: Available only with wing terminals |
| | 400 Hz 250V High power resistors for MIL LISNs. Note: Size of LISN will change |
| | SUPERCON© connectors up to 25A (per path) |
| | SUPERCON© connectors up to 50A (per path) |
| | SUPERCON© connectors up to 100A (per path) |
| | Re Calibration cost per path 90 Calibration adaptor for 2 path LISN |
| | Calibration adaptor for 2 path LISN |
| | Calibration adaptor for 4 path LISN |
| | Calibration adaptor for MIL LISN |
| | Calibration adaptor for Automotive LISN |
| | Common Mode/ Differential Mode analysis in 2 Line LISN (inbuilt) |
| | Common Mode/Differential Mode analysis in 2/4 Line LISN (external) Individual RF connectors for each line required. |
| | Individual RF connector for Common Mode/Differential mode per path |
| | High voltage option 1 with DO-160 |
| | High voltage option 2 with DO-160 |

| Model # | Laplace Instruments Ltd. Product Description |
|-----------------------------|---|
| Antennas | |
| 550-2B | 550-2B active monopole |
| 562B | 562B 60cm active loop |
| Antenna stand for above | Antenna stand for above |
| ARAP01 Complete kit | Active Receive Antenna for use in restricted spaces |
| ARF Antenna stand for above | ARF Antenna stand for above |
| DAEP02 LF antenna set | DAEP02 LF antenna set |
| MST01 Antenna stand | MST01 Antenna stand |
| OFA-S | Omnifield antenna |
| RF0020 | RF0020, horn, 1-2GHz |
| RF0021 | RF0021, horn, 2-5GHz |
| RF200 | Modified log-periodic EMC antenna Frequency Range: 30MHz-1GHz, with MST01 Antenna Stand |
| RF230 | Log-periodic EMC antenna, Frequency Range: 1-4GHz antenna, w/Miniature tripod and case |
| RF300 | <p>RF300 Large Loop Antenna (Van Veen Loop)</p> <p>Key Points</p> <ul style="list-style-type: none"> This antenna is specified in EN55015 for the measurement of luminaries. CISPR15 and CISPR16 compliant. Includes all 3 axes with wooden frame and all connecting cables Optional calibration loop as specified in CISPR15/16 Shipped in compact form, ready for assembly on-site. Includes full instructions and all parts required for assembly. Each antenna is individually calibrated and issued with manufacturer's calibration certificate. <p>one carton 120x80x18cm, 9kg gross - 4kg net weight.</p> |
| RF300C | RF300C Cal. loop for RF300. 20Kgs 163x36x17cms (Vol. 20Kgs) |
| RF300+RF300C Freight | Freight for RF300 and RF300C. Box 1 6Kg/13.23lbx 82x80x17cms/32x31x7inches (volumetric 23Kgs) RF300+RF300C 24Kgs/53lbs 163x36x23cms/65x15x10inches (Vol. 27Kgs) |
| RF510-4 | RF510-4. LPA, 200MHz-3GHz |
| RF543 | RF543, Bicon, 80 - 300MHz |

| CDNs - Enhanced and Standard | |
|-------------------------------------|---|
| E46ST6 | E46ST6 - Enhanced Versatile CDN which is used for testing shielded and unshielded cables up to 6 core using BNC connectors rated up to 2 Amp. This device would be able to test any of the following configurations - S1, S2, S3, S4, S5, S6, AF2, AF3, AF6, T2, T3, T6. |
| S46ST6 | S46ST6 - Standard Versatile CDN which is used for testing shielded and unshielded cables up to 6 core using BNC connectors rated up to 2 Amp. This device would be able to test any of the following configurations - S1, S2, S3, S4, S5, S6, AF2, AF3, AF6, T2, T3, T6. |
| E46ST8 | E46ST8 - Enhanced Versatile CDN which is used for testing screened Telecom cables up to CAT5 (4 pair cables) using RJ45 connectors rated up to 250 mAmp. This device would be able to test any of the following configurations - STP up to UTP 4 pair, 2 pair RJ11 cables, S1, S2, S3, S4, S5, S6, S7, S8, AF1, AF2, AF4, AF8, T1, T2, T4, T8 . |
| S46ST8 | S46ST8 - Standard Versatile CDN which is used for testing screened Telecom cables up to CAT5 (4 pair cables) using RJ45 connectors rated up to 250 mAmp. This device would be able to test any of the following configurations - STP up to UTP 4 pair, 2 pair RJ11 cables, S1, S2, S3, S4, S5, S6, S7, S8, AF1, AF2, AF4, AF8, T1, T2, T4, T8 . |
| E46S25 | E46S25 - Enhanced Versatile CDN which is used for testing screened cables up to 25 core terminated in a D type connector with rating up to 250 mAmp. This device would be able to test any combination of cable s up to 25 conductors. |
| S46S25 | S46S25 - Standard Versatile CDN which is used for testing screened cables up to 25 core terminated in a D type connector with rating up to 250 mAmp. This device would be able to test any combination of cable s up to 25 conductors. |
| E46T24 | E46ST24 - Enhanced Versatile CDN which is used for testing unscreened cables with individual cores and twisted pairs up to 24 core using unterminated cable sets with rating up to 250 mAmp. This device would be able to test any combination of the following configurations - AF1, AF2, AF4, AF6, AF8, AF12, and AF24. |
| S46T24 | S46ST24 - Standard Versatile CDN which is used for testing unscreened cables with individual cores and twisted pairs up to 24 core using unterminated cable sets with rating up to 250 mAmp. This device would be able to test any combination of the following configurations - AF1, AF2, AF4, AF6, AF8, AF12, and AF24. |
| E46ST6 | E46ST6 - Enhanced Versatile CDN which is used for testing shielded and unshielded cables up to 6 core using BNC connectors rated up to 2 Amp. This device would be able to test any of the following configurations - S1, S2, S3, S4, S5, S6, AF2, AF3, AF6, T2, T3, T6. |
| S46ST6 | S46ST6 - Standard Versatile CDN which is used for testing shielded and unshielded cables up to 6 core using BNC connectors rated up to 2 Amp. This device would be able to test any of the following configurations - S1, S2, S3, S4, S5, S6, AF2, AF3, AF6, T2, T3, T6. |
| E46M3 | E46M3 - Enhanced Versatile CDN which is used for testing power lines and ground lines with rating up to 16 Amp. This device would be able to perform testing for M1 (single conductor), M2 (dual conductor) and M3 (triple conductor). |
| S46M3 | S46M3 - Standard Versatile CDN which is used for testing power lines and ground lines with rating up to 16 Amp. This device would be able to perform testing for M1 (single conductor), M2 (dual conductor) and M3 (triple conductor). |
| S46M5/9 | S46M5/9 - Standard Versatile CDN which is used for testing of three phase power lines and ground lines with higher amperage rating. This device would be able to perform testing for M1 (single conductor), M2 (dual conductor), M3 (triple conductor). M4 (four conductors) and M5 (five conductors). Plus additional control/auxiliary lines to a total of 9 lines |
| Clean Power Source | |
| AC1000A | AC1000A Clean Power Source. A power source that provides up to 1kW of 50Hz mains supply that meets the THD requirements of IEC61000-3-2. Only for 50Hz (European Standard Only. No Harmonic and Flicker Standards for the USA). |
| | 240Mains standards. Ships with a UK Power Cord |

| CLIENTS system (Combined Laplace Immunity & Emission Test System) | |
|--|--|
| CLIENTS300-1 | Emission and Immunity Radiated System up to 1GHz (Includes LaplaCell300, SA1002,RF3000, RF1100) |
| CLIENTS300-2 | Immunity Radiated System up to 2GHz (Includes LaplaCell300, SA3000, RF3000, RF1100 and RF1200) |
| CLIENTS300-3 | Immunity Radiated System up to 3GHz (Includes LaplaCell300, SA3000, RF3000, RF1100 and RF1300) |
| CLIENTS600-1 | Immunity Radiated System up to 1GHz (Includes LaplaCell600, SA1002, RF3000, RF1100) |
| CLIENTS600-2 | Immunity Radiated System up to 2GHz (Includes LaplaCell600, SA3000, RF3000, RF1100 and RF1200) |
| CLIENTS600-3 | Immunity Radiated System up to 3GHz (Includes LaplaCell600, SA3000, RF3000, RF1100 and RF1300) |
| Comb Generator | |
| CRS+ | The CRS+ is a stable and repeatable, wide-band generator covering the EMC conducted bands A and B. Shipping Container: 2Kgs, 30x26x27cms |
| CRS+ Freight | Freight for CRS+ |
| Emission Analyzers | |
| SA1002 | The SA1002 is a fully featured EMC Emissions Spectrum Analyzer for all EMC compliance measurements up to 1GHz |
| SA1002-A | SA1002-A with 200Hz RBW |
| SA1002-TG | SA1002-TG with track genny |
| SA1002-A-TG | SA1002-A-TG |
| SA3000 | SA3000 Analyzer. High performance, PC controlled, 3GHz EMC analyzer with powerful Windows software application. |
| SA3000-A | SA3000-A with 200Hz RBW |
| SA3000-TG | SA3000-TG with track genny |
| SA3000-A-TG | SA3000-A-TG |
| Power Cord | Power Cord - Laplace Instruments Emission Analyzers do not ship with a power cord |
| Emissions Reference Source (ERS) | |
| ERS | Emissions Reference Source (ERS) The ERS is a transfer standard for the calibration of radiated emission measurements on OATS or in EMC chambers. |
| Replacement ERS battery kit | Replacement ERS battery kit |
| Filters | |
| AP range | Mains filter 3A |
| AL range | Mains filter 10A |
| AF range | Mains filter 20A |
| AFL630 | Mains filter 30A |
| GLE30 | Ground filter 30A |
| GLE4 | Ground filter (in tool) |
| MSN01 | EMI adaptor - plug-in |
| RF600 | RF600 FM band filter |
| RF700 | RF700 30MHz HP filter |
| RF800 | This filter covers the band B (150KHz - 30MHz), rejecting other frequencies. The pass band attenuation is only 2dB, but the key requirement to attenuate the strong low frequency noise often found in industrial sites exceeds 30dB. |
| Field Probes - Active and Passive | |
| RAD1004/1 | Probe, laser powered 4GHz. Includes the RAD1001 interface and laser power unit. 10m fiber cable included |
| RAD20m | 20m fiber optic cable for EP600 |
| RF100 | The RF100 probe set consists of a passive E field probe and H field probe, BNC adaptor and carry case. The output is via a BNC socket. |
| Field Sensors | |
| RAD1004/1 | Probe, laser powered 4GHz. Includes the RAD1001 interface and laser power unit. 10m fiber cable included |
| EP600 | EP600 field sensor |

| Ground Planes and Clamps | |
|---------------------------------|--|
| 46GP | Ground plane + 2 clamps |
| 46XP | Ground plane extantion + 1clamp |
| 46ZZ | Impedance Adaptor Pair for CDNs |
| 46MZZ | Impedance Adaptor Pair for M5/9 |
| 22L | E46 22L for use with type E only |
| Harmonic and Flicker | |
| AC2000A | AC2000A Harmonics & Flicker Analyzer. The AC2000A is a Harmonics and Flicker analyzer that is fully compliant with the latest versions of IEC61000-3-2 and IEC61000-3-3. |
| | 240Mains standards. Ships with a UK Power Cord |
| LISNs - Special | |
| LISN16A1P | CISPR16 16 Amp Single Phase Standard Line Impedance Stabilization Network (LISN) - frequency 150kHz-30MHz |
| LISNA16A1P | CISPR 16 16 Amp Single Phase Standard Line Impedance Stabilization Network (LISN) with band A and band B - frequency 9kHz - 30MHz |
| LISN32A1P | CISPR 16 32 Amp Single Phase Standard Line Impedance Stabilization Network (LISN) - frequency 150kHz-30MHz |
| LISN63A1P | CISPR 16 63 Amp Single Phase Standard Line Impedance Stabilization Network (LISN) - frequency 150kHz-30MHz |
| LISN100A1P | CISPR 16 100 Amp Single Phase Standard Line Impedance Stabilization Network (LISN) - frequency 150kHz-30MHz |
| LISN32A3P | CISPR 16 32 Amp 3 Phase Standard Line Impedance Stabilization Network (LISN) - frequency 150kHz-30MHz |
| LISN63A3P | CISPR 16 63 Amp 3 Phase Standard Line Impedance Stabilization Network (LISN) - frequency 150kHz-30MHz |
| LISN100A3P | CISPR 16 100 Amp 3 Phase Standard Line Impedance Stabilization Network (LISN) - frequency 150kHz-30MHz |
| LISN-C25/100A | CISPR25 100 Amp Single Conductor Standard Line Impedance Stabilization Network (LISN) |
| LISN-C25/30A | CISPR25 30 Amp Two Line Conductor Standard Line Impedance Stabilization Network (LISN) |
| LISN-461E/100 | MIL STD 461E 100 Amp Single Conductor Standard Line Impedance Stabilization Network (LISN) |
| LISN59-41/100 | Def Stan 100 Amp Single Conductor Standard Line Impedance Stabilization Network (LISN) |
| Power Cord | Must Specify Power Cord Style USA or other |
| PLIP Voltage probe | |
| PLIP | PLIP Voltage probe |
| Pre Amplifiers | |
| SA1020 | 1GHz RF Pre-Amplifier |
| P3086 | 30MHz RF Pre-Amplifier |
| P3085-PSU | Power supply for pre-amp |
| Pre-Selectors | |
| RF910 | RF910 Auto preselector |
| RF915 | RF915 Pre-selector |
| Power Cord | Power Cord - Laplace Instruments Pre Selectors do not ship with a power cord |
| RF Power Amplifiers | |
| RF0250 | RF Power Amplifier 0.15 - 250MHz |
| RF1100 | RF Power Amplifier 30MHz - 1GHz |
| RF1200 | RF Power Amplifier 1GHz - 2GHz |
| RF1300 | RF Power Amplifier 1GHz - 3GHz |
| RF1170 | RF Power Amplifier 30MHz - 1GHz |
| RF1330 | RF Power Amplifier 1GHz - 3GHz |
| Power Cord | Power Cord - Laplace Instruments RF Power Amplifiers do not ship with a power cord |

| RFI Immunity Radiated Systems | |
|---|---|
| RFI300-1 | Immunity Radiated System up to 1GHz (Includes LaplaCell300, RF3000, RF1100) |
| RFI300-2 | Immunity Radiated System up to 2GHz (Includes LaplaCell300, RF3000, RF1100 and RF1200) |
| RFI300-3 | Immunity Radiated System up to 3GHz (Includes LaplaCell300, RF3000, RF1100 and RF1300) |
| RFI600-1 | Immunity Radiated System up to 1GHz (Includes LaplaCell600, RF3000, RF1100) |
| RF600-2 | Immunity Radiated System up to 2GHz (Includes LaplaCell600, RF3000, RF1100 and RF1200) |
| RF600-3 | Immunity Radiated System up to 3GHz (Includes LaplaCell600, RF3000, RF1100 and RF1300) |
| Power Cord | Power Cord - Laplace Instruments RF Immunity Radiated Systems do not ship with a power cord |
| RFIC-4-6 Conducted Immunity Test System | |
| RFIC-4-6 | The RFIC system comprises a PC controlled synthesizer unit (the RFIC-4-6), Power Amplifier (RF0250), CDNs to suit the application and a Windows compatible software package. This system fully complies with IEC61000-4-6. In addition it includes 4 channels of EUT monitoring with results plotted against frequency, active display of power output level and stress level, high speed USB interface and the ability to work with either 'conventional' CDNs or 'enhanced' CDNs. |
| -A option (6dB attenuator) | -A option (6dB attenuator) |
| Power Cord | Power Cord - Laplace Instruments RFIC-4-6 Conducted Immunity Test Systems do not ship with a power cord |
| Signal Generator | |
| RF3000 Synthesizer | RF3000 signal generator. Fully compliant with IEC61000-4-3, this PC controlled synthesizer includes an exceptionally powerful Windows package for control, programming, monitoring, display and logging of results. A range of power amplifiers. Standard outputs from 8W to 70W continuous. Provides ample power to create over 10V/m in any small efficient test cell. Higher powered amplifiers are available if required. |
| -RX remote sensor interface | RX remote sensor interface Enables input from field probes EP-600 or RAD1004/1 |
| Power Cord | Power Cord - Laplace Instruments RF3000 Synthesizer does not ship with a power cord |
| Test Cells - Compact Emissions and Immunity test cells for EMC compliance testing. | |
| LC300/3 - 3GHz EUT | LaplaCell300 is calibrated up to 3GHz for Emission and Immunity The Lc300 is designed for EUTs up to 30cm x 30cm x 30cm The Lc300 is fitted as standard with the following filtered feeds into the EUT volume... - mains power feed - Fiber optic duct - Qty 12 general purpose low bandwidth 5A 240v feeds - connectors/installed cable for camera/light option. - Door interlock. |
| LC600/3 - 3GHz EUT | The LaplaCell600 is calibrated up to 3Ghz for Emission and Immunity Testing The Lc600 is designed for EUTs up to 60cm x 60cm x 60cm The Lc600 is fitted as standard with the following filtered feeds into the EUT volume... - mains power feed - Fiber optic duct - Qty 12 general purpose low bandwidth 5A 240v feeds - connectors/installed cable for camera/light option. - Door interlock. |

| Test Cell Accessories | |
|--|---|
| LC-cam | LaplaCell-Cam Internal camera |
| LETIS | Power amplifiers that are universally used for radiated immunity testing either cover the range below 1GHz or the range above 1GHz. This means that if the test requirement extends both sides of this 1GHz point, the power amplifier needs to be changed over. Generally, this involves three connections... <ul style="list-style-type: none"> - the RF signal from the synthesizer to the PA - the RF output from the PA to the antenna/cell - interlock/standby connections The LETIS handles all these connections automatically. Each is switched via a high performance RF relay under the control of a USB interface. Software issued with the Laplace Synthesizers automatically detects the presence of a LETIS and handles the switching automatically. |
| LaplaCell 300 Crate | LaplaCell 300 Reusable Shipping Crate. Crate size for Lc300/2: 292 x 97 x 102cm Wt: 180kg, Vol. Wt. 290kg |
| LaplaCell 600 Crate | LaplaCell 600 Reusable Shipping Crate. Crate size for Lc600 330 x 145 x 154cm Wt: 440kg, Vol. Wt. 730kg |
| LaplaCell I/O Ports | LaplaCell I/O Ports Extra Input connections |
| IEC 61000-4-2, -4, -5, -8, -9, -11, -29 | |
| AXOS5 | Integrated test set (complete) |
| AXOX5-5 | Surge only (-4-45) |
| AXOX5-4 | EFT/Burst only (-4-4) |
| AXOX5-11 | Dips & Int. only (-4-11) |
| AXOX5 | Upgrade for surge |
| AXOX5 | Upgrade for EFT |
| AXOS5-11X | Upgrade for dips & Interrupts |
| ECoupler4 | 3 ph. EFT CDN 32A/690v |
| MFS100 | Mag. field set(-4-8,-4-9) |
| PEC1610 | Motorized ext. variac 16A |
| ONYX16 | ESD test system |
| ONYX30 | ESD test system |
| | Additional RC modules for the ONYX16 and ONYX30 |
| IP4A | Capacitive coupling clamp |
| PCD121 | Data line coupling network (sym) |
| PCD126A | 4 wire cplr (unshielded asym) |
| DEC5 | Decoupling network (sym) |
| DEC7 | Decoupling network (asyn) |
| VTM15000 | Voltage mult. (surge1.2/50us) |
| EFT ver | EFT verification set (3 ph) |
| EFT adaptor | EFT verification adaptor |
| BIRDIE-FTR | |
| Birdie with PC softwar | Birdie with PC software |
| Birdie padded bag (sp | Birdie padded bag (spare) |
| Mains adaptor (spare) | Mains adaptor (spare) |
| Birdie spare label set | Birdie spare label set (50) |

| Calibration | |
|----------------------------------|--|
| CAL-AC1000A | Clean Power Source Calibration |
| CAL-AC2000A | Harmonics & Flicker Analyzer Calibration |
| CAL-CDN Feedback (E series only) | Feedback (E series only) |
| CAL-CDN Impedance to 180MHz | Impedance to 180MHz |
| CAL-CDN Insertion loss | Insertion loss |
| CAL-Cell | LaplaCell300 and LaplaCell600 calibrated up to 3GHz for Emission and Immunity |
| CAL-CRS+ | Conductive Reference Source Calibration |
| CAL-ERS | ERS - Emission Reference Source Calibration |
| CAL-LISN - 1P | LISN - 1P |
| CAL-LISN - 3P | LISN - 3P |
| CAL-P2085 | P2085 Calibration |
| CAL-RF1000 or 2000 or 3000 | RF Synthesizer Calibration |
| CAL-RF1100 or 1200 or 1300 | RF Power Amplifier Calibration |
| CAL-RF1170 | RF Power Amplifier Calibration |
| CAL-RF1240 | RF Power Amplifier Calibration |
| CAL-RF300 | RF300 RF Synthesizer Calibration |
| CAL-RF910 | RF910 pre-selector calibration |
| CAL-RF915 | RF915 pre-selector calibration |
| CAL-SA1002 | SA100 or SA1002 Spectrum Analyzer calibration |
| CAL-SA1020 | SA1020 and P2085 pre-amp Calibration |
| CAL-SA3000 | SA3000 |
| | All Calibrations and Repair freight documents must state the following: "Import under IPR CPC 5100001 – Goods of UK origin returned for repair/calibration - Items are to be imported under IPR CPC 5100001 being goods of UK origin, temporarily returned for repair/recalibration" |
| Parts | |
| Replacement ERS bat | Replacement ERS battery kit with LiMH batteries and new charging control circuit. |
| ERS Antenna Replace | ERS Antenna Replacement |
| | All Calibrations and Repair freight documents must state the following: "Import under IPR CPC 5100001 – Goods of UK origin returned for repair/calibration - Items are to be imported under IPR CPC 5100001 being goods of UK origin, temporarily returned for repair/recalibration" |

| Model # | OnFILTER Product Description |
|------------------------------|---|
| 3Amp AC Filters | |
| APN515LG | 3Amp AC filter with NEMA outlet up to 125V AC 3 Amp, Grounding for Soldering for general application |
| APN515FG | 3Amp AC filter with NEMA outlet up to 125V AC 3Amp, Ground connection is Filtered for general application |
| APN515NG | 3Amp AC filter with NEMA outlet up to 125V AC 3 Amp, Ground connection is not Filtered for general application |
| APN515FM | 3Amp AC filter with NEMA outlet up to 125V AC 3 Amp, Ground connection is filtered; for non-critical applications in medical environment |
| APN515NM | 3Amp AC filter with NEMA outlet up to 125V AC 3 Amp, Ground connection is not filtered; for non-critical applications in medical environment |
| APTS03NM | 3Amp AC filter with Terminal Block Single Phase outlet up to 250V AC 3 Amp, Ground connection is not filtered; for non-critical applications in medical environment |
| 10Amp AC Filters | |
| ALN515FG | 10Amp AC filter with NEMA outlet up to 125V AC 10 Amp, Ground connection is Filtered for general application |
| ALN515FM | 10Amp AC filter with NEMA outlet up to 125V AC 10 Amp, Ground connection is filtered; for non-critical applications in medical environment |
| ALN615FG | 10Amp AC filter with NEMA outlet up to 250V AC 10 Amp, Ground connection is Filtered for general application |
| ALN615FM | 10Amp AC filter with NEMA outlet up to 255V AC 10 Amp, Ground connection is filtered; for non-critical applications in medical environment |
| ALTS03FG | 10Amp AC filter with Terminal Block Single Phase up to 250V AC 10 Amp, Ground connection is Filtered for general application |
| ALTS03FM | 10Amp AC filter with Terminal Block single phase outlet up to 250V AC 10 Amp, Ground connection is filtered; for non-critical applications in medical environment |
| 10Amp 250V AC Filters | |
| AFEUSKFG-D | CleanSweep® Power Line AC Filters 10A 250V Capacity. Clean Power Free of High-Frequency Noise |
| AFN515FG-D | CleanSweep® Power Line AC Filters 10A 250V Capacity. Clean Power Free of High-Frequency Noise. NEMA 5-15 Outlet |
| AFEUSKFG-D | CleanSweep® Power Line AC Filters 10A 250V Capacity. Clean Power Free of High-Frequency Noise. Schuko Outlet |
| 15Amp AC Filters | |
| AFL515FG | 15Amp AC filter with NEMA L5-15 outlet up to 125V AC 15 Amp, Ground connection is Filtered for general application |
| AFL515FM | 15Amp AC filter with NEMA L5-15 outlet up to 125V AC 15 Amp, Ground connection is filtered; for non-critical applications in medical environment |
| AFL615FG | 15Amp AC filter with NEMAL6-15 outlet up to 250V AC 15 Amp, Ground connection is Filtered for general application |
| AFL615FM | 15Amp AC filter with NEMAL6-15 outlet up to 250V AC 15 Amp, Ground connection is filtered; for non-critical applications in medical environment |
| AFN515FG | 15Amp AC filter with NEMA outlet up to 125V AC 15 Amp, Ground connection is Filtered for general application |
| AFN515FM | 15Amp AC filter with NEMA outlet up to 125V AC 15 Amp, Ground connection is filtered; for non-critical applications in medical environment |
| AFN615FG | 15Amp AC filter with NEMA outlet up to 250V AC 15 Amp, Ground connection is Filtered for general application |
| AFN615FM | 15Amp AC filter with NEMA outlet up to 250V AC 15 Amp, Ground connection is filtered; for non-critical applications in medical environment |

| 20Amp AC Filters | |
|--|---|
| AFL520FG | 20Amp AC filter with NEMA L5-20 outlet up to 250V AC 20 Amp, Ground connection is Filtered for general application |
| AFL520FM | 20Amp AC filter with NEMA L5-20 outlet up to 250V AC 20 Amp, Ground connection is filtered; for non-critical applications in medical environment |
| AFL620FG | 20Amp AC filter with NEMA L6-20 outlet up to 250V AC 20 Amp, Ground connection is Filtered for general application |
| AFL620FM | 20Amp AC filter with NEMA L6-20 outlet up to 250V AC 20 Amp, Ground connection is filtered; for non-critical applications in medical environment |
| AFN520FG | 20Amp AC filter with NEMA outlet up to 125V AC 20 Amp, Ground connection is Filtered for general application |
| AFN520FM | 20Amp AC filter with NEMA outlet up to 250V AC 20 Amp, Ground connection is filtered; for non-critical applications in medical environment |
| AFN620FG | 20Amp AC filter with NEMA outlet up to 250V AC 20 Amp, Ground connection is Filtered for general application |
| AFN620FM | 20Amp AC filter with NEMA outlet up to 250V AC 20 Amp, Ground connection is filtered; for non-critical applications in medical environment |
| AFTS03AFG | 20Amp AC filter with Terminal Block Single Phase up to 250V AC 20 Amp, Ground connection is Filtered for general application |
| AFTS03AFM | 20Amp AC filter with Terminal Block Single Phase up to 250V AC 20 Amp, Ground connection is Filtered; for non-critical applications in medical environment |
| AFTS03ANG | 20Amp AC filter with Terminal Block Single Phase up to 250V AC 20 Amp, Ground connection is not Filtered for general application |
| 30Amp AC Filters | |
| AFL2130FG | 30Amp AC three phase Wye filter with NEMA L21-30 up to 208V AC 30Amp, Ground connection is Filtered for General application. |
| AFL530FG | 30Amp AC filter with NEMA L5-30 outlet up to 125V AC 30 Amp, Ground connection is Filtered for General applications |
| AFL530NG | 30Amp AC filter with NEMA L5-30 outlet up to 125V AC 30 Amp, Ground connection is not Filtered for General applications |
| AFL630FG | 30Amp AC filter with NEMA L6-30 outlet up to 125V AC 30 Amp, Ground connection is Filtered for General applications |
| AFTS03BFG | 30Amp AC filter with Terminal Block Single Phase up to 250V AC 30 Amp, Ground connection is Filtered for General application |
| 9Amp DC Filter | |
| DCNG5009 | 9Amp DC filter with no filtering on ground and 50V DC voltage rating. |
| Ground Filters | |
| GLE04-01 | Ground Line EMI Filter GLE04-01 51.3mm x 35mm x 20mm |
| GLE30-1 | 30Amp Ground Filter |
| EMI Adapters for Power Lines Products | |
| MSN01 | Plug-In EMI Adapter for Power Lines |
| MSN12 | Hand-Held EMI Adapter for Power Lines |
| Servo Motor Filters | |
| SF20031 | Servo Motor Filter. Drive Voltage, max. 250V, Drive Current, max. 3A, Rise/Fall Times, typ. 1.5 μ S |
| SF20032 | Servo Motor Filter. Single Phase. Drive Voltage, max. 250V, Drive Current, max. 3A, Rise/Fall Times, typ. 1.5 μ S, AC Voltage, max. 250VAC, AC Current, max. 10A, Noise Reduction, typ. >20dB |
| SF20101 | Servo Motor Filter. Drive Voltage, max. 250V, Drive Current, max. 10A, Rise/Fall Times, typ. 1.2 μ S |

| Model # | PowerMax Product Description |
|--------------------|---|
| PTWA-2.5G7.5G-1000 | TWT RF Amplifier - 2.5 to 7.5GHz - 1000W CW |
| PTWA-2.5G7.5G-500 | TWT RF Amplifier - 2.5 to 7.5GHz - 500W CW |
| PSSA-1G2.5G-1000 | Solid State RF Amplifier - 1 to 2.5GHz - 1000W CW |
| PSSA-1G2.5G-500 | Solid State RF Amplifier - 1 to 2.5GHz - 500W CW |
| PTWA-8G18G-20 | TWT RF Amplifier, 8 to 18GHz, 20W CW |

| Model # | SANWOOD Product Description | |
|--|--------------------------------|------------------------------|
| Desktop Temperature and Humidity Chamber | | |
| 1. Temperature range: -60°C~180°C (-20°C~180°C or -45°C~180°C or -60°C~180°C) | | |
| 2. Humidity range: 10%~98% | | |
| 3. Stability: ±0.5°C, Temperature uniformity: ±0.5~1.0°C | | |
| 4. Internal volume: 22.5L, 27L or 64L | | |
| 5. Material:1.2mm thick 304 stainless steel inner box, 1.5mm thick steel paint A3 outer box | | |
| 6. Controller: South Korea SANWON control system, multi-language selection (Russian, English, Chinese, Korean) | | |
| Parameters | | |
| Model | Temperature Range | Inner Volume |
| SM-22-CB | -20°C~180°C | 22.5L = W300mm*H300mm*D250mm |
| SM-27-CB | -20°C~180°C | 27 L = W300mm*H300mm*D300mm |
| SM-64-CB | -20°C~180°C | 64L = W400mm*H400mm*D400mm |
| SM-22-CC | -45°C~180°C | 22.5L = W300mm*H300mm*D250mm |
| SM-27-CC | -45°C~180°C | 27 L = W300mm*H300mm*D300mm |
| SM-64-CC | -45°C~180°C | 64L = W400mm*H400mm*D400mm |
| SM-22-CD | -60°C~180°C | 22.5L = W300mm*H300mm*D250mm |
| SM-27-CD | -60°C~180°C | 27 L = W300mm*H300mm*D300mm |
| SM-64-CD | -60°C~180°C | 64L = W400mm*H400mm*D400mm |
| Ultra Low Temperature Test Chamber | | |
| 1. Temperature range:-75°C~180°C or -85°C~180°C | | |
| 2. Stability:±0.5°C Temperature uniformity:±1.0°C | | |
| 3. Heating rate 6.0°C/min | | |
| 4. Cooling rate 1.7°C/min | | |
| 5. Internal volume: 64L = W400mm*H400mm*D400mm | | |
| 6. Material:1.2mm thick 304 stainless steel inner box, 1.5mm thick steel paint A3 outer box | | |
| 7. Controller: South Korea SANWON control system, multi-language selection (Russian, English, Chinese, Korean) | | |
| Parameters | | |
| Model | Temperature Range | Inner Volume |
| SM-712 | -75°C~180°C | 64L = W400mm*H400mm*D400mm |
| SM-812 | -85°C~180°C | 64L = W400mm*H400mm*D400mm |

| High / Low Temperature Test Chamber | | |
|--|-------------------|---------------------------------|
| 1. Temperature range: -75°C~150°C (0°C~150°C or -20°C~150°C or -45°C~150°C or -75°C~150°C) | | |
| 2. Temperature fluctuation: ±0.5°C, Temperature uniformity: ±1.0~2.0°C | | |
| 3. Heating rate: 3.0~5.0°C/min, Cooling rate 1.0~2.0°C/min | | |
| 4. Internal Volume and Dimensions: (W*D*Hmm): 80L = W400mm*D400mm*H500mm, 150L = W500mm*D500mm*H600mm, 225L = W500mm*D600mm*H750mm, 408L = W800mm*D600mm*W850mm, 800L = W1000mm*D800mm*H1000mm, 1000L = W1000mm*D1000mm*H1000mm, 1500L = W1200mm*D1000mm*H1250mm | | |
| 5. Material: 1.2mm thick 304 stainless steel inner box, 1.5mm thick steel paint A3 outer box | | |
| 6. Controller: South Korea SANWON control system, multi-language selection (Russian, English, Chinese, Korean) | | |
| Model | Parameters | |
| | Temperature Range | Inner Volume |
| SM-80-CA | 0~150°C | 80L = W400mm*D400mm*H500mm |
| SM-150-CA | 0~150°C | 150L = W500mm*D500mm*H600mm |
| SM-225-CA | 0~150°C | 225L = W500mm*D600mm*H750mm |
| SM-408-CA | 0~150°C | 408L = W800mm*D600mm*W850mm |
| SM-800-CA | 0~150°C | 800L = W1000mm*D800mm*H1000mm |
| SM-1000-CA | 0~150°C | 1000L = W1000mm*D1000mm*H1000mm |
| SM-1500-CA | 0~150°C | 1500L = W1200mm*D1000mm*H1250mm |
| SM-80-CB | -20~150°C | 80L = W400mm*D400mm*H500mm |
| SM-150-CB | -20~150°C | 150L = W500mm*D500mm*H600mm |
| SM-225-CB | -20~150°C | 225L = W500mm*D600mm*H750mm |
| SM-408-CB | -20~150°C | 408L = W800mm*D600mm*W850mm |
| SM-800-CB | -20~150°C | 800L = W1000mm*D800mm*H1000mm |
| SM-1000-CA | -20~150°C | 1000L = W1000mm*D1000mm*H1000mm |
| SM-1000-CB | -20~150°C | 1500L = W1200mm*D1000mm*H1250mm |
| SM-80-CC | -45~150°C | 80L = W400mm*D400mm*H500mm |
| SM-150-CC | -45~150°C | 150L = W500mm*D500mm*H600mm |
| SM-225-CC | -45~150°C | 225L = W500mm*D600mm*H750mm |
| SM-408-CC | -45~150°C | 408L = W800mm*D600mm*W850mm |
| SM-800-CC | -45~150°C | 800L = W1000mm*D800mm*H1000mm |
| SM-1000-CA | -45~150°C | 1000L = W1000mm*D1000mm*H1000mm |
| SM-1500-CC | -45~150°C | 1500L = W1200mm*D1000mm*H1250mm |
| SM-80-CD | -45~150°C | 80L = W400mm*D400mm*H500mm |
| SM-150-CD | -75~150°C | 150L = W500mm*D500mm*H600mm |
| SM-225-CD | -75~150°C | 225L = W500mm*D600mm*H750mm |
| SM-408-CD | -75~150°C | 408L = W800mm*D600mm*W850mm |
| SM-800-CD | -75~150°C | 800L = W1000mm*D800mm*H1000mm |
| SM-1000-CA | -75~150°C | 1000L = W1000mm*D1000mm*H1000mm |
| SM-1500-CD | -75~150°C | 1500L = W1200mm*D1000mm*H1250mm |

| Temperature and Humidity Testing Chamber | | |
|--|-------------------|---------------------------------|
| 1. Temperature range: -70°C ~ 180°C (0°C ~ 150°C or -20°C ~ 150°C or -45°C ~ 150°C or -75°C ~ 150°C) | | |
| 2. Humidity range: 10~98% RH | | |
| 3. Temperature fluctuation: ±0.5°C, Temperature uniformity: ±1.0~2.0°C | | |
| 4. Heating rate: 3.0~5.0°C/min, Cooling rate 1.0~2.0°C/min | | |
| 5. Internal Volume and Dimensions: (W*D*Hmm): 80L = W400mm*D400mm*H500mm, 150L = W500mm*D500mm*H600mm, 225L = W500mm*D600mm*H750mm, 408L = W800mm*D600mm*W850mm, 800L = W1000mm*D800mm*H1000mm, 1000L = W1000mm*D1000mm*H1000mm, 1500L = W1200mm*D1000mm*H1250mm | | |
| 6. Material: 1.2mm thick 304 stainless steel inner box, 1.5mm thick steel paint A3 outer box | | |
| 7. Controller: South Korea SANWON control system, multi-language selection (Russian, English, Chinese, Korean) | | |
| Model | Parameters | |
| | Temperature Range | Inner Volume |
| SMC-80-CA | 0 ~ 150°C | 80L = W400mm*D400mm*H500mm |
| SMC-150-CA | 0 ~ 150°C | 150L = W500mm*D500mm*H600mm |
| SMC-225-CA | 0 ~ 150°C | 225L = W500mm*D600mm*H750mm |
| SMC-408-CA | 0 ~ 150°C | 408L = W800mm*D600mm*W850mm |
| SMC-800-CA | 0 ~ 150°C | 800L = W1000mm*D800mm*H1000mm |
| SMC-1000-CA | 0 ~ 150°C | 1000L = W1000mm*D1000mm*H1000mm |
| SMC-1500-CA | 0 ~ 150°C | 1500L = W1200mm*D1000mm*H1250mm |
| SMC-80-CB | -20 ~ 150°C | 80L = W400mm*D400mm*H500mm |
| SMC-150-CB | -20 ~ 150°C | 150L = W500mm*D500mm*H600mm |
| SMC-225-CB | -20 ~ 150°C | 225L = W500mm*D600mm*H750mm |
| SMC-408-CB | -20 ~ 150°C | 408L = W800mm*D600mm*W850mm |
| SMC-800-CB | -20 ~ 150°C | 800L = W1000mm*D800mm*H1000mm |
| SMC-1000-CB | -20 ~ 150°C | 1000L = W1000mm*D1000mm*H1000mm |
| SMC-1500-CB | -20 ~ 150°C | 1500L = W1200mm*D1000mm*H1250mm |
| SMC-80-CC | -45 ~ 150°C | 80L = W400mm*D400mm*H500mm |
| SMC-150-CC | -45 ~ 150°C | 150L = W500mm*D500mm*H600mm |
| SMC-225-CC | -45 ~ 150°C | 225L = W500mm*D600mm*H750mm |
| SMC-408-CC | -45 ~ 150°C | 408L = W800mm*D600mm*W850mm |
| SMC-800-CC | -45 ~ 150°C | 800L = W1000mm*D800mm*H1000mm |
| SMC-1000-CC | -45 ~ 150°C | 1000L = W1000mm*D1000mm*H1000mm |
| SMC-1500-CC | -45 ~ 150°C | 1500L = W1200mm*D1000mm*H1250mm |
| SMC-80-CD | -75 ~ 150°C | 80L = W400mm*D400mm*H500mm |
| SMC-150-CD | -75 ~ 150°C | 150L = W500mm*D500mm*H600mm |
| SMC-225-CD | -75 ~ 150°C | 225L = W500mm*D600mm*H750mm |
| SMC-408-CD | -75 ~ 150°C | 408L = W800mm*D600mm*W850mm |
| SMC-800-CD | -75 ~ 150°C | 800L = W1000mm*D800mm*H1000mm |
| SMC-1000-CD | -75 ~ 150°C | 1000L = W1000mm*D1000mm*H1000mm |
| SMC-1500-CD | -75 ~ 150°C | 1500L = W1200mm*D1000mm*H1250mm |
| | | |

| Landing Type Temperature and Humidity Testing Chamber | |
|--|--|
| 1. Temperature range: -55°C~150°C or -75°C~150°C | |
| 2. Humidity range:10~98% RH | |
| 3. Temperature fluctuation: ±0.5°C; Temperature uniformity: ±1.0~2.0°C; | |
| 4. Heating rate: 3.0~5.0°C/min;cooling rate 1.0~2.0°C/min; | |
| 5. Internal Volume and Dimensions: 1800L = W1000mm*D1200mm*H1500mm, 2520L = W1200mm*D1400mm*H1500mm, 3600L = W1200mm*D1500mm*H2000mm, 3960L = LW1200mm*D1500mm*H2200mm, 5000L = W1500mm*D1800mm*H1850mm, 8000L W2000mm*D2000mm*H2000mm | |
| 6. Material: 1.2mm thick 304 stainless steel inner box, 1.5mm thick steel paint A3 outer box | |
| 7. Controller: South Korea SANWON control system, multi-language selection (Russian, English, Chinese, Korean) | |
| 8. Explosion proof device can be added: pressure monitoring, pressure relief, explosion proof lock, rare gas monitoring, fire extinguishing device. | |

| Model | Parameters | |
|-------------|-------------------|---------------------------------|
| | Temperature Range | Inner Volume |
| SMC-1800-CC | -45~150°C | 1800L = W1000mm*D1200mm*H1500mm |
| SMC-2520-CC | -45~150°C | 2520L = W1200mm*D1400mm*H1500mm |
| SMC-3600-CC | -45~150°C | 3600L = W1200mm*D1500mm*H2000mm |
| SMC-3960-CC | -45~150°C | 3960L = W1200mm*D1500mm*H2200mm |
| SMC5000-CC | -45~150°C | 5000L = W1500mm*D1800mm*H1850mm |
| SMC-8000-CC | -45~150°C | 8000L = W2000mm*D2000mm*H2000mm |
| SMC-1800-CD | -75~150°C | 1800L = W1000mm*D1200mm*H1500mm |
| SMC-2520-CD | -75~150°C | 2520L = W1200mm*D1400mm*H1500mm |
| SMC-3600-CD | -75~150°C | 3600L = W1200mm*D1500mm*H2000mm |
| SMC-3960-CD | -75~150°C | 3960L = W1200mm*D1500mm*H2200mm |
| SMC5000-CD | -75~150°C | 5000L = W1500mm*D1800mm*H1850mm |
| SMC-8000-CD | -75~150°C | 8000L = W2000mm*D2000mm*H2000mm |

| Walk in Temperature and Humidity Testing Chamber | |
|--|--|
| 1. Temperature range: -25°C~80°C or -60°C~80°C | |
| 2. Humidity range: 20~98%RH | |
| 3. Temperature fluctuation:±1.0°C; Temperature uniformity:±2.0~3.0°C | |
| 4. Heating rate: 2.0~5.0°C/min; cooling rate 0.7~1.5°C/min | |
| 5. Internal volume:8.0m³,12.0m³,16.0m³,25.0m³,34.0m³,40.0m³, | |
| 6. Material:1.2mm thick 304 stainless steel inner box, 1.5mm thick steel paint A3 outer box | |
| 7. Controller: South Korea SANWON control system, multi-language selection (Russian, English, Chinese, Korean) | |

| Model | Parameters | |
|------------|-------------------|--------------|
| | Temperature Range | Inner Volume |
| SMC-080-WT | -25~80°C | 8.0m³ |
| SMC-120-WT | -25~80°C | 12.0m³ |
| SMC-160-WT | -25~80°C | 16.0m³ |
| SMC-250-WT | -25~80°C | 25.0m³ |
| SMC-340-WT | -25~80°C | 34.0m³ |
| SMC-400-WT | -25~80°C | 40.0m³ |
| SMC-080-WT | -60~80°C | 8.0m³ |
| SMC-120-WT | -60~80°C | 12.0m³ |
| SMC-160-WT | -60~80°C | 16.0m³ |
| SMC-250-WT | -60~80°C | 25.0m³ |
| SMC-340-WT | -60~80°C | 34.0m³ |
| SMC-400-WT | -60~80°C | 40.0m³ |

| Thermal Shock Test Chamber | | |
|--|-------------------|-----------------------------|
| 1. Temperature range: -65°C~125°C or -70°C~125°C | | |
| 2. Uniformity of temperature distribution: ±2 | | |
| 3. Temperature shock range: -70~150°C | | |
| 4. Internal volume: 60L, 125, 300, 120, 202 | | |
| 5. Shock Conversion time: About 3S | | |
| 6. Shock reset time: about 5min | | |
| 7. Material:1.2mm thick 304 stainless steel inner box, 2.0mm thick steel paint A3 outer Splicing box | | |
| 8. Controller: SANWOOD control system, multi-language selection (Russian, English, Chinese, Korean) | | |
| 9. APP can be equipped with control systems | | |
| Parameters | | |
| Model | Temperature Range | Inner Volume |
| SM-11-2P-A | -65~125°C | 11 L |
| SM-60-2P-A | -65~125°C | 60L = W380mm*D430mmxH370mm |
| SM-125-2P-A | -65~125°C | 125L = W470mm*D650mm*H410mm |
| SM-300-2P-A | -65~125°C | 300L = W770mm*D650mm*H610mm |
| SM-80-3P-A | -70~125°C | 80L = W400mm*D400mm*H500mm |
| SM-120-3P-A | -70~125°C | 120L = W470mm*D650mm*H400mm |
| SM-202-3P-A | -70~125°C | 202L = W650mmxD670mmxH460mm |
| SM-500000-2P-A | -70~125°C | 500 cubic Meters |

| Temperature Humidity and Vibration Integrated Test Chamber | | |
|--|----------------------------------|--------------------------------|
| 1. Temperature range: -45°C~180°C | | |
| 2. Temperature fluctuation: ±0.5°C; Temperature uniformity: ±1.0~2.0°C | | |
| 3. Heating rate: 5.0°C/min; 10.0°C/min; 1 5.0°C/min | | |
| 4. Internal volume: 600L, 1200L, 2200L | | |
| 5. Material:1.5mm thick 304 stainless steel inner box, 1.5mm thick steel paint A3 outer box | | |
| 6. Controller: South Korea SANWON control system, multi-language selection (Russian, English, Chinese, Korean) | | |
| 7. Optional 300KG, 600KG, 1000KG high frequency vibration table; frequency range: 2000 ~ 4500HZ | | |
| Parameters | | |
| Model | Temperature Range | Inner Volume |
| SMA-4060-5 | -45°C~180°C, Ramp rate:5.0°C/min | 600L = W800mm*D800mm*H950mm |
| SMA-4120-5 | -45°C~180°C, Ramp rate:5.0°C/min | 1200L = W1100mm*D1100mm*H950mm |
| SMA-4220-5 | -45°C~180°C, Ramp rate:5.0°C/min | 2200L = W1200mm*D1400mm*H100mm |
| SMA-4060-10 | -45°C~180°C, Ramp rate:5.0°C/min | 600L = W800mm*D800mm*H950mm |
| SMA-4120-10 | -45°C~180°C, Ramp rate:5.0°C/min | 1200L = W1100mm*D1100mm*H950mm |
| SMA-4220-10 | -45°C~180°C, Ramp rate:5.0°C/min | 2200L = W1200mm*D1400mm*H100mm |
| SMA-4060-15 | -45°C~180°C, Ramp rate:5.0°C/min | 600L = W800mm*D800mm*H950mm |
| SMA-4120-15 | -45°C~180°C, Ramp rate:5.0°C/min | 1200L = W1100mm*D1100mm*H950mm |
| SMA-4220-15 | -45°C~180°C, Ramp rate:5.0°C/min | 2200L = W1200mm*D1400mm*H100mm |

| High Low Temperature and Low Pressure Test Chamber | |
|--|--|
| 1. Temperature range: -25°C~180°C, -45°C~180°C or -70°C~180°C | |
| 3. Temperature fluctuation: ±1.0°C; Temperature uniformity: ±2.0~3.0°C | |
| 4. Heating rate: 2.0~5.0°C/min; Cooling rate 0.7~1.5°C/min | |
| 4. Internal volume: 720L, 1000L, 2370L | |
| 5. Material: 10.0mm thick 304 stainless steel inner box, 6.0mm thick steel paint A3 outer box | |
| 6. Controller: South Korea SANWON control system, multi-language selection (Russian, English, Chinese, Korean) | |

| Model | Parameters | |
|----------------|--|---------------------------------|
| | Temperature Range | Inner Volume |
| SM-VT-0770W-20 | -25°C~180°C Atmospheric pressure ~0.5kPa; | 720L = W800m*D900mm*H1000m |
| SM-VT-1070W-20 | -25°C~180°C Atmospheric pressure ~0.5kPa; | 1000L = W1000mm*D1000mm*H1000mm |
| SM-VT-2470W-20 | -25°C~180°C Atmospheric pressure ~0.5kPa; | 2370L = W1300mm*D1300mm*H1400mm |
| SM-VT-0770W-40 | -45°C~180°C, Atmospheric pressure ~0.5kPa; | 720L = W800m*D900mm*H1000m |
| SM-VT-1070W-40 | -45°C~180°C, Atmospheric pressure ~0.5kPa; | 1000L = W1000mm*D1000mm*H1000mm |
| SM-VT-2470W-40 | -45°C~180°C, Atmospheric pressure ~0.5kPa; | 2370L = W1300mm*D1300mm*H1400mm |
| SM-VT-0770W-70 | -70°C~180°C, Atmospheric pressure ~0.5kPa; | 720L = W800m*D900mm*H1000m |
| SM-VT-1070W-70 | -70°C~180°C, Atmospheric pressure ~0.5kPa; | 1000L = W1000mm*D1000mm*H1000mm |
| SM-VT-2470W-70 | -70°C~180°C, Atmospheric pressure ~0.5kPa; | 2370L = W1300mm*D1300mm*H1400mm |
| SM-VT-16000W | -70°C~180°C, Atmospheric pressure ~0.5kPa; | Approximately 16 Cubic Meters |

| Xenon Lamp Weather Resistance Test Chamber | |
|---|--|
| 1. Light source: 4.5kw water-cooled xenon lamp | |
| 2. temperature control: | |
| Black panel temperature | |
| 40°C ~ 120°C (± 2 °C) BPT | |
| 40 ~ 110°C (± 2 °C) BPT | |
| 3. Humidity control: | |
| When the lighting | |
| 10 ~ 75% RH (± 3 °C), when darkness | |
| 30 ~ 95% RH (± 3 °C) | |
| 4. Irradiation intensity: 60W/m ² | |
| 5. Wavelength: 290nm~400nm; | |
| 6. Internal volume: 300L, 800L, 1200L | |
| 7. Controller: SANWOOD control system, multi-language selection (Russian, English, Chinese, Korean) | |

| Model | Parameters | |
|-----------|-------------------|---------------------------------|
| | Temperature Range | Inner Volume |
| SM-300XD | | 300L = W600mm*D600mm*H600mm |
| SM-800XD | | 800L = W900mm*D900mm*H900mm |
| SM-1200XD | | 1200L = W1000mm*D1200mm*H1000mm |

| UV Aging Test Chamber | |
|--|--|
| 1. Temperature range: 25°C~70°C | |
| 2. Humidity range: 95~98%RH | |
| 3. Using light source: UVA / UVB ultraviolet lamp | |
| 4. Source wavelength: 280~400nm | |
| 5. Lamp Configuration: 8pcs | |
| 6. Material: 1.2mm thick 304 stainless steel inner box, 1.2mm thick 304 stainless steel outer box | |
| 7. Controller: South Korea SANWON control system, multi-language selection (Russian, English, Chinese, Korean) | |
| 8. Internal volume: 600L, 800L | |

| Model | Parameters | |
|------------|-------------------|---|
| | Temperature Range | Inner Volume |
| SM-UV600-C | 25°C~70°C | Inside dimension: 600L = W450mm*D1100mm*H500mm, Outside dimension: W500mm*D1440mm*H1470mm |
| SM-UV800-C | 25°C~70°C | inner dimension: 800L = W1200mm*D600mm*H450mm, outside dimension: W1400mm*D1650mm*H650mm |

| Salt spray test chamber | | |
|--|---|--------------------------------|
| 1. Laboratory temperature: +35~+50C | | |
| 2. Salt spray test air flow: 2m3/h at 0°C and 1 bar | | |
| 3. The exhaust air flow: 7m3/h at 0°C and 1 bar | | |
| 4. Compressed air pressure : 4~10 bar | | |
| 5. Spray method: Non crystalline nozzle | | |
| 6. Compressor: 200W1/WHP 2~4KG | | |
| 7. Internal volume: 108L, 270L, 480K, 950L | | |
| Parameters | | |
| Model | Temperature Range | Inner Volume |
| SM-Y-60D | +35°C/+50°C | 108L = W600mm*D450mm*H400mm |
| SM-Y-90D | +35°C/+50°C | 270L = W900mm*D600mm*H500mm |
| SM-Y-120D | +35°C/+50°C | 480L = W1200mm*D800mm*H500mm |
| SM-Y-160D | +35°C/+50°C | 950L = W1600mm*D1000mm*H600mm |
| | | |
| Temperature and Humidity and Salt Spray | | |
| 1. Temperature range: RT~+65°C | | |
| 2. Humidity range: 20~98% RH | | |
| 3. Heating and cooling rates: RT~> 65 °C/30 minutes approx, 65°C~RT/ 30 minutes/approx | | |
| 4. Temperature deviation: ±2 °C Humidity deviation: +2/-3% RH | | |
| 5. Spray volume: 1.0~2.0ml/80cm2/h | | |
| 6. Air pressure: 1.00±0.01kgf/cm² | | |
| 7. Salinity: 5% sodium chloride or to add 0.26g of copper chloride per liter with 5% sodium chloride | | |
| 8. PH value: NSS ACSS 6.5~7.2 CASS: 3.0~3.3 | | |
| 9. Sample installation angle: 15°~30° | | |
| 10. Internal volume: 270L, 480L, 950K, 1440L | | |
| Parameters | | |
| Model | Humidity & Temperature Range | Inner Volume |
| SM-F-90C | Humidity: 20%~98% Temperature: -10°C~80°C | 270L = W900mm*D600mm*H500mm |
| SM- F-120C | Humidity: 20%~98% Temperature: -10°C~80°C | 480L = W1200mm*D800mm*H500mm |
| SM- F-160C | Humidity: 20%~98% Temperature: -10°C~80°C | 950L = W1600mm*D1000mm*H600mm |
| SM- F-200C | Humidity: 20%~98% Temperature: -10°C~80°C | 1440L = W2000mm*D1200mm*H600mm |
| | | |
| High Temperature Aging Test Chamber | | |
| 1. Temperature range: +25°C~+300°C | | |
| 2. Temperature and Humidity Control Precision: ±2.0C/ ±2.5C | | |
| 3. Heating time: 25C~100C/6min | | |
| 4. Inner volume: 80L, 150L, 240L, 480L | | |
| 5. Power: 3.0kw~6.5kw | | |
| 6. Internal volume: 80L, 150L, 240K, 480L | | |
| Parameters | | |
| Model | Temperature Range | Inner Volume |
| SM-G-80D | +25°C~+300°C | 80L = W400mm*D400mm*H500mm |
| SM-G-150D | +25°C~+300°C | 150L = W500mm*D500mm*H600mm |
| SM-G-240D | +25°C~+300°C | 240L = W500mm*D600mm*H800mm |
| SM-G-480D | +25°C~+300°C | 480L = W600mm*D800mm*H1000mm |
| | | |

| Vacuum Oven with High Precision | | |
|---|---|---------------------------------|
| 1. Temperature range: RT+10°C~+200°C | | |
| 2. Inner volume: 53L, 215L, 91L | | |
| 3. Temperature resolution / volatility: 0.1 °C /±1 °C | | |
| 4. Vacuum degree: 133 Pa | | |
| 5. Power supply voltage: AC220V 50HZ | | |
| Parameters | | |
| Model | Temperature Range | Inner Volume |
| DZF-6050 | 25°C~200°C Vacuum degree :133Pa | 53L = W415mm*D370mm*H345mm |
| DZF-6210 | 25°C~200°C Vacuum degree :133Pa | 215L = W560mm*D600mm*H640mm |
| DZF-6090 | 25°C~200°C Vacuum degree :133Pa | 91L = W450mm*D450mm*H450mm |
| | | |
| Rain Test Chamber | | |
| 1. Temperature range: Relative temperature | | |
| 2. Waterproof Level: IPX12, IPX34, IPX56, IPX78 and IPX9K | | |
| 3. Nozzle Diameter: 0.4mm, 0.4mm, 6.3mm,12.5mm | | |
| 4. Power supply : AC380V±10%/50Hz/2.5KW, Three phase five wire | | |
| 5. Material: 1.2mm thick 304 stainless steel inner box, 1.5mm thick steel paint A3 outer box | | |
| Parameters | | |
| Model | Temperature Range | Inner Volume |
| SM-LY-IP12-500 | IPX1、 IPX2 Dropping water strengths 1.9~3.8L/h; droppi | 500L = W800mm*D800mm*H800mm |
| SM-LY-IP12-1000 | IPX1、 IPX2 Dropping water strength is 1.9~3.8L/h; droppi | 1000L = W1000mm*D1000mm*H1000mm |
| SM-LY-IP34-500 | IPX3、 IPX4 | 500L = W800mm*D800mm*H800mm |
| SM-LY-IP34-1000 | IPX3、 IPX4 | 1000L = W1000mm*D1000mm*H1000mm |
| SM-LY-IP56 | IPX5、 IPX6 6.3mm nozzle spray amount is12.5L/min, severe level is 75L/min,12.5mm nozzle spray amount is 100L/min, spray distance is 2.5~3m; | |
| SM-X9K-500C | IPX9K Spray angle:0、 30、 60、 90degree ; Flow:14~16L | 500L = W800mm*D800mm*H800mm |
| SM-X9K-1000C | IPX9K Spray angle:0、 30、 60、 90 degree ; Flow:14~16L | 1000L = W1000mm*D1000mm*H1000mm |
| | | |
| Sand and Dust Test Chamber | | |
| 1. Test temperature: 25°C~70°C | | |
| 2. The amount of dust (talc): 2kg/m ² ~4kg/m ² | | |
| 3. Internal volume: 500L,1000L | | |
| 2. Test Humidity: 45~95%RH | | |
| 3. Internal volume: 500L,1000L,1500L,2000L; | | |
| 4. Dust concentration: 100~60000/mg/m ³ | | |
| 5. Spray dust cycle: 1sec~99hr | | |
| 6. Material:1.5mm thick 304 stainless steel inner box, 2.0mm thick steel paint A3 outer box | | |
| 7. Controller: SANWOOD control system, multi-language selection (Russian, English, Chinese, Korean) | | |
| 8. Standard: JIS D 0207 CNS-7139 IEC 60529 | | |
| Parameters | | |
| Model | Temperature Range | Inner Volume |
| SM-SC-500C | 25°C~70°C | 500L = W800mm*D800mm*H800mm |
| SM-SC-1000C | 25°C~70°C | 1000L = W1000mm*D1000mm*H1000mm |
| SM-SC-4840C | 25°C~70°C | 4840L |
| | | |

| Ozone Aging Test Chamber | | |
|---|---------------------|-----------------------------|
| 1. Temperature range: RT +10~+60C | | |
| 2. Internal volume: 150L | | |
| 3. Ozone solubility :0~1500pphm | | |
| 4. Ozone concentration: \leq 5% pphm | | |
| 5. Material:1.5mm thick 304 stainless steel inner box, 2.0mm thick steel paint A3 outer box | | |
| 6. Controller: SANWOOD control system, multi-language selection (Russian, English, Chinese, Korean) | | |
| Standard: JOSK6259 ASTM1149 ISO1431 GB/TTB62 GB/T13642 | | |
| Parameters | | |
| Model | Ozone concentration | Inner Volume |
| SM-150CY | (0~1500PPhm) | 150L = W500mm*D500mm*H600mm |
| SM-150CY | (0~300PPM) | 150L = W500mm*D500mm*H600mm |
| Standard: JOSK6259 ASTM1149 ISO1431 GB/TTB62 GB/T13642 | | |

| Model # | Schwarzbeck Mess-Elektronik Description |
|---|--|
| Antenna Holders / baluns | |
| VHA 9103 B | Holder / Balun without telescopic dipole elements (for use with Biconical BBA 9106, BBAL 9136, BBAK 9137, BBVK 9138) |
| HFBA 9122 | HF-VHF Broadband Balun / holder (0.1) 0.15 - 300 (500)MHz especially to measure very high field strength. BBAL 9136, BBA 9106, BBAK 9137, BBVU 9135 or BBUK 9139 biconical elements required. |
| VHBA 9123 | Antenna Holder / Balun for Bicon. Broad Band Antenna (e.g. BBA), 50 / 200 \square , (better antenna factor below 50MHz, also EMV application 100 W |
| VHBB 9124 | Antenna holder / Balun 50:200 Ohm , high symmetry, 25-300MHz, 10 W for BBA, BBAL, BBAK, BBVK |
| VHBC 9133 | Antenna holder / Balun 50:200 Ohm, 1 kW, for biconical or collapsible elements (BBA, BBAL, BBFA, Triangle, FBAA, FBAB) |
| VHBD 9134-N | High power antenna holder / Balun with N-connector, 50:200 Ohm, 2.5 kW for lower frequency range or limited by N-connector for upper frequency range, 20-200MHz for biconical or collapsible elements. |
| VHBD 9134-7/16 | High power antenna holder / Balun with 7/16-connector, 50:200 Ohm, 2.5 kW, 20-200MHz for biconical or collapsible elements. |
| VHBD 9134-4 | 4 kW high power antenna holder / Balun 50:200 \square , 20-200MHz for BBAL 9136 or BBFA 9146, 7/16-female connector. |
| UBAA 9114 | Broadband Balun/Holder 4:1, 30-1000MHz, 5 W, low loss, BBVU, BBUK, BAOC or BBOC elem. required |
| UBAA 9115 | Broadband Balun/Holder 4:1, 30-1000MHz, 5 W, extremely high symmetry, BBVU, BBUK, BAOC or BBOC elem. required |
| HOLDER 3164-08 | Adapter to convert the backside of ETS 3164-08 into 22 mm tube with indexing ring. |
| Biconical elements | |
| BBA 9106 | Biconical Elements, 30-300MHz, requires VHA 9103 B, VHBC, VHBB or VHBA |
| BBAL 9136 | Biconical Elements, 20-200MHz, requires VHA 9103 B, VHBC, VHBB or VHBA |
| BBAK 9137 | Biconical Elements, 45-450MHz broad band, requires VHA 9103, VHBB or VHBA |
| BBVK 9138 | Biconical Elements, 60-600MHz broad band, requires VHA 9103, VHBB or VHBA |
| BBVU 9135 | Biconical Elements, (30)100-1000MHz (like VUBA), for UBAA 9114/9115 |
| BBUK 9139 | Biconical Elements, 160-1200MHz broad band (like UBA), for UBAA 9114/9115 |
| Collapsible or open Biconical Elements | |
| BBAE 9179 | Foldable elements for immunity for automotive applications, optimized for 1 m measurement distance, max. diameter 150 cm, 20-220MHz suitable for: VHBC 9133, VHBD 9134, VHBD 9134-4. Some Baluns may need a mechanical modification! |
| Holder Short | Plastic holders to be fixed at a high power Balun e.g. VHBA 9123, VHBC 9133, VHBD 9134, VHBD 9134-4. BBAE 9179 elements have 2 pins. The HOLDER SHORT accept the second pin and absorb the torque caused by BBAE 9179 in horizontal Polarization. |
| Holder Long | Plastic holders to be fixed at a high power Balun e.g. VHBA 9123, VHBC 9133, VHBD 9134, VHBD 9134-4. The HOLDER LONG must be assembled to the Balun to use BBAE 9179 with booster coils. |
| BBFA 9146 | Large collapsible aluminum Elements with extensions up to 4 m |
| FBAB 9177 | Collapsible Biconical Elements 30 – 300MHz (instead of BBA) |
| FBAL 9178 | Large Collapsible Biconical Elements 20 – 200MHz (instead of BBAL) |
| BAOC 9216 | Open Conical Elements, 160-1200MHz broad band, for UBAA 9114/9115 |
| BBOC 9217 | Open Conical Elements, (30)100-1000MHz broad band, for UBAA 9114/9115 |
| BCO1 9180 5W | Set of pluggable coils with 10 mm element fixtures and 10 mm shafts. A pair of coils is added between the high power Balun and the antenna element. Suitable for the following baluns: VHBA 9123, VHBC 9133, VHBD 9134, VHBD 9134-4. Suitable for the following elements: BBA 9106, BBAL 9136, BBFA 9146, BBAE 9179 and others. The booster coils have 5 turns and increase the gain of the biconical antenna in the lower frequency range remarkably. If the coils are used with BBAE 9179 the Balun must be equipped with additional torque absorbing plastic fixation bar (holder long) |

| Logarithmic Periodic Broadband Antennas | |
|--|--|
| UHALP 9108 A | Log.-Periodic Antenna, aluminum. Tubing, 250 – 2400MHz, low loss, 1 kW power |
| VUSLP 9111-1000 | Log.-Per. Antenna, aluminum tubing, 1000 – 3000 (4000)MHz, low loss, 1 kW. |
| VUSLP 9111-400 | Log.-Periodic Antenna, aluminum. Tubing, 400 - 3000 (4000)MHz, low loss, 1 kW . |
| VUSLP 9111 | Log.-Periodic Antenna, aluminum. Tubing, 200 – 2300 (4000)MHz, low loss, 1 kW power |
| VUSLP 9111 B | Log.-Periodic Antenna, aluminum. Tubing, (180) 200 - 3000 (4000)MHz, low loss, 1 kW power |
| VUSLP 9111 E | Log.-Per. Antenna, aluminum tubing, 1 kW power, 70 (65)-3000 (4000)MHz. Recommended adapter: KG 9201. EN 61000-4-3 |
| VUSLP 9111 F | Log.-Per. Antenna, aluminium tubing, dismountable, (75) 80 MHz - 3 (4) GHz. Recommended adapter: KG 9201. |
| VULP 9118 A | Log.-Per. Antenna, aluminum tubing, 1 kW power, 180 -1500 (2000)MHz |
| VULP 9118 B | Log.-Per. Antenna, aluminum tubing, 1 kW power, 160-1500 (2000)MHz |
| VULP 9118 C | Log.-Per. Antenna, aluminum tubing, 1 kW power, 100-1400 (2000)MHz |
| VULP 9118 C Special | Log.-Per. Antenna, aluminum tubing, 1 kW power, 100-1400 (2000)MHz. Nearly identical gain as VULP 9118 C but with reduced width. Special=folded longest elements. |
| VULP 9118 D | Log.-Per. Antenna, aluminum tubing, 1 kW power, (80) 95 -1500 (1800)MHz |
| VULP 9118 D special | Log.-Per. Antenna, aluminum tubing, 1 kW power, (80) 95 -1500 (1800)MHz. Nearly identical gain as VULP 9118 D but with reduced width. Special = folded longest elements. |
| VULP 9118 D HP | Log.-Per. Antenna, aluminum tubing, high power with 7/16.-connector, (80) 95 -1500 (1800)MHz |
| VULP 9118 D HP sp | Log.-Per. Antenna, aluminum tubing, high power with 7/16.-connector, (80) 95 -1500 (1800)MHz, nearly identical gain as VULP 9118 E High Power but with reduced width. Special = folded longest elements. |
| VULP 9118 E | Log.-Per. Antenna, aluminum tubing, 1 kW power, 75 (50)-1500MHz. |
| VULP 9118 E Demo Unit | Log.-Per. Antenna, aluminum tubing, 1 kW power, 75 (50)-1500MHz. |
| VULP 9118 E special | Log.-Per. Antenna, aluminum tubing, 1 kW power, 75 (50)-1500MHz. Nearly identical gain as VULP 9118 E but with reduced width. Special=folded longest elements. |
| VULP 9118 E High Power | Log.-Per. Antenna, aluminum tubing, high power, 7/16-connector, 75 (50)-1500MHz. |
| VULP 9118 E HP sp | Log.-Per. Antenna, aluminum tubing, high power, 7/16-connector, 75 (50)-1500MHz. Nearly identical gain as VULP 9118 E HP but with reduced width. Special=folded longest elements. |
| VULP 9118 F | Log.-Per. Antenna, al. tubing, end discs, 1 kW power, 55 -1800MHz |
| VULP 9118 G | Log.-Per. Antenna, al. tubing, end discs, 1 kW power, 45 -1500MHz |
| VULP 9118 G special | Log.-Per. Antenna, al. tubing, end discs, 1 kW power, 45 -1500MHz. Nearly identical gain as VULP 9118 G but with reduced width. Special=folded longest elements. |
| VULP 9118 H | Log.-Per. Antenna, aluminum tubing, 1 kW power, (26) 30 - 1500 (1800)MHz, N- connector gain 6 dBi, VSWR<3, width 5.2 m, length 4.8 m, weight 35 kg. |
| VULX 9163 | Dual Linear polarized Logarithmic Periodic Broadband Antenna (140) 150 - 1500 (2500) MHz. |
| Opt. WP | Option: grey coating and sealing for outdoor use |
| USLP 9142 | UHF – SHF Log. – Per. Antenna, 0.7 – 5 (8)GHz |
| USLP 9143 | UHF – SHF Log. – Per. Antenna, (0.25) 0.3 – 7 (8)GHz |
| USLP 9143 B | UHF – SHF Log. – Per. Antenna, (0.18) 0.2 – 7 (8)GHz |
| ESLP 9145 | UHF – EHF Log. – Per. Antenna, (0.7) 1- 18 (20)GHz, N-connector |
| XSLP 9142 | Dual Polarized UHF-SHF Log.-Per. Antenna, 800MHz – 3(5)GHz, 50 W |
| XSLP 9143 | Dual Polarized UHF-SHF Log.-Per. Antenna, 300MHz – 3(5.5)GHz, 50 W |

| Stacked Logarithmic Periodic Broadband Antennas | |
|--|---|
| STLP 9128 C-N | Stacked double Log.-Per. Antenna, typ. gain: 9 dBi, aluminum. Tubing, high power, (150) 200 - 1500 (4000)MHz, N-connector max. power 1 kW for lower frequency range or limited by N-connector for higher frequency range. |
| STLP 9128 C-7/16 | Stacked double Log.-Per. Antenna, typ. gain: 9 dBi, aluminum. Tubing, high power, (150) 200 - 1500 (4000)MHz, 7/16-connector max. power 2 kW for lower frequency range or limited by 7/16-connector for higher frequency range. Shipping Container: 94x93x45cm. Weight 13.5 kg. |
| Opt. 13-30 | Option: with 13-30-connector limited to 2500MHz but higher power up to 8 kW including adapter similar to AA 9202 |
| STLP 9128 D-N | Stacked double Log.-Per. Antenna, typ. gain: 9 dBi, aluminum. Tubing, high power, 80 -3000 (4000)MHz, max. power 1 kW in the lower frequency range, power limited by N-connector in the higher frequency range, fastlinks for quick removal of the rear parts of the antenna. Recommended Adapter: AA 9209 |
| STLP 9128 D-7/16 | Stacked double Log.-Per. Antenna, typ. gain: 9 dBi, aluminum. Tubing, high power, 80 -3000 (4000)MHz, max. power 2 kW in the lower frequency range, power limited by 7/16-connector in the higher frequency range, fastlinks for quick removal of the rear parts of the antenna. Recommended Adapter: AA 9209 |
| STLP 9128 D sp-N | Like STLP 9128 D but with folded longest elements and smaller structure angle, N-connector, fastlinks for quick removal of the rear parts of the antenna. Antenna diameter < 150 cm. Recommended Adapter: AA 9209. |
| STLP 9128 D sp-7/16 | Like STLP 9128 D but with folded longest elements and smaller structure angle, 7/16-connector, fastlinks for quick removal of the rear parts of the antenna. Antenna diameter < 150 cm. Recommended Adapter: AA 9209. |
| STLP 9128 E-N | Stacked double Log.-Per. Antenna, typ. gain: 9 dBi, aluminum. Tubing, high power, (65) 80 - 1500 (3000)MHz, N-connector, max power in the lower frequency range 1 kW, in the upper frequency range limited by N-connector, fastlinks for quick removal of the rear parts of the antenna. Recommended Adapter: AA 9209 |
| STLP 9128 E-7/16 | Stacked double Log.-Per. Antenna, typ. gain: 9 dBi, aluminum. Tubing, high power, (65) 80 - 1500 (3000)MHz, 7/16-connector, max power in the lower frequency range 2 kW, in the upper frequency range limited by 7/16-connector, fastlinks for quick removal of the rear parts of the antenna. Recommended Adapter: AA 9209 |
| STLP 9128 E sp-N | Like STLP 9128 E but with folded longest elements and smaller structure angle. N-connector, antenna diameter < 150 cm. Fastlinks for quick removal of the rear parts of the antenna. Recommended Adapter: AA 9209 |
| STLP 9128 E sp-7/16 | Like STLP 9128 E but with folded longest elements and smaller structure angle. 7/16-connector, antenna diameter < 150 cm. Fastlinks for quick removal of the rear parts of the antenna. Recommended Adapter: AA 9209 |
| STLP 9129 | Stacked double Log.-Per. Antenna, typ. gain: 9 dBi, aluminum. Tubing, (70) 80 -9000 (10500)MHz, N-connector, fastlinks for quick removal of the rear parts of the antenna, tip with radome. Recommended Adapter: AA 9209. Ideal for IEC 61000-4-3. |
| Opt. 9129 7/16 | We will assemble a 7/16-connector and use 0.250 cable to the tip, several parts inside the antenna have to be changed. Max. power: 3,5kW @ 200Mhz 1,5kW @ 1000Mhz 1kW @ 2500Mhz 0.65kW @ 6000Mhz Frequency range may be limited to 6GHz. |
| STLP 9148 | Stacked double Log.-Per. Antenna, typ. gain: 9 dBi (0.7) 1 – 18 (20)GHz, N- connector |
| STLP 9149 | Stacked double Log.-Per. Antenna for IEC 61000-4-3 typ. gain 10.3 dBi, (0,6) 0,7 – 9 (10,5)GHz, N-connector female. |

| Biconic Logarithmic Periodic Antennas (Hybrid) | |
|---|--|
| VULB 9161 SE | TRILOG Super Broadband test Antenna, 30 – 1000 (2000)MHz, 1 kW with short Triangle elements, diameter < 150 cm |
| VULB 9162 | TRILOG Broadband Antenna 30MHz - 7GHz, 100 W, diameter < 150 cm |
| VULB 9163 | TRILOG Super Broadband test Antenna, (25) 30 – 3000 (4000)MHz, 100 W (200 W) |
| VULB 9168 | TRILOG Super Broadband. Test Antenna, (25) 30-1000 (2000)MHz, 10 W, reduced width, diameter < 1.5 m. |
| Biconical Antennas | |
| SBA 9113 B | Small Biconical Antenna 80MHz – 3GHz for harmonics measurements acc. To IEC61000-4-3 |
| SBA 9113 | Small biconical microwave antenna 0.5 – 3GHz, 20 W. CIS/A/648/CDV CISPR 16-1-4 Site evaluation above 1GHz |
| SBA 9112 | Small biconical microwave antenna (1) 3 – 18GHz, 10 W including transport case. CIS/A/648/CDV CISPR 16-1-4 Site evaluation above 1GHz |
| SBA 9119 | Small biconical microwave antenna 1 – 6GHz, 20 W. CIS/A/648/CDV CISPR 16-1-4 Site evaluation above 1GHz including transport case. |
| UBA 9116 | Biconical UHF broad band antenna (160) 300 -1000 (1100)MHz |
| VUBA 9117 | Biconical VHF-UHF broad band antenna (30) 150 -1000MHz |
| Dipoles | |
| VHA 9103 | VHF Half-Wave Dipole with 2 sets of telescopic elements, 30-300MHz |
| UHA 9105 | Tunable UHF – Half – Wave Dipole, 300 – 1000MHz w. telescopic elements |
| UHA 9125 C | Tunable UHF – Half – Wave Dipole with EMI – Balun, 0.75 – 2GHz with 4 sets of elements, LE = 180, 140, 100, 80 mm including transport case. |
| UHA 9125 D | Tunable UHF – Half – Wave Dipole with EMI – Balun, 1.0 – 3 (4)GHz with 6 sets of elements, LE = 140, 114, 90, 72, 60, 48 mm, including transport case. |
| ILS Dipole | Linear polarized half-wave dipole with 1:1 Balun and fixed element length for field strength measurements at instrument landing systems (ILS) 108 - 118MHz and 320 - 340MHz. |
| CCA ILS | Transport and storage case made of aluminum for ILS Dipole |
| TETRA-Dipole | Linear polarized half-wave dipole with 1:1 Balun and fixed element length for measurements at TETRA (terrestrial trunked radio) networks 340 - 480MHz |
| Precision Dipoles | |
| VHAP | VHF Precision Dipole 30-300MHz, 2 sets of telescopic elements (mostly required in pairs) CISPR 16-1-5. |
| UHAP | UHF Precision Dipole 300-1000MHz (VHAP & UHAP mostly required in pairs) CISPR 16-1-5 |
| CCA | Carrying and storing case for 2 x VHAP or 2 x UHAP, cases for other antennas also available. |
| VHAPA | Calibration adaptor for VHAP Precision Dipoles |
| UHAPA | Calibration adaptor for UHAP Precision Dipoles |
| Monitoring & drive testing antennas | |
| RSH 2342 | Omni directional horizontally polarized UHF antenna 170 - 350MHz. |
| RSH 4786 | Omni directional horizontally polarized UHF antenna (350) 470 - 860 (1050)MHz for outside use. |
| RS 16 | Vertical polarized microwave biconical antenna (0,5) 1 – 6 (8,5)GHz with omni directional H-plane pattern. |
| RE 1790 | Vertical polarized VHF- UHF biconical antenna (170) 230 – 1000 (1100)MHz with omni directional H-plane pattern. |
| RE 4590 | Vertical polarized VHF- UHF biconical antenna (330) 450 – 1000 (1100)MHz with omni directional H-plane pattern. |
| RS 0460 | Vertically polarized symmetrical biconical antenna 0,4 – 6GHz, Omni directional in the H-plane |
| CCA RS 0460 | Transport case for RS 0460. |

| Broadband Horn Antennas | |
|-------------------------------------|--|
| BBHA 9120 A | Broad-Band Horn Antenna (0.8) 1 – 5 (10)GHz, N-connector |
| BBHA 9120 B | Broad-Band Horn Antenna 1 – 10GHz, N-connector |
| BBHA 9120 C | Broad-Band Horn Antenna 2 – 18 (20)GHz, SMA-connector |
| BBHA 9120 D | Broad-Band Horn Antenna (0.8) 1 – 18GHz, N-connector |
| BBHA 9120 E | Broad-Band Horn Antenna 0.5 – 6GHz, N-connector |
| BBHA 9120 F-N | Broad-Band Horn Antenna 0.2 – 2GHz, N-connector |
| BBHA 9120 F-7/16 | Broad-Band Horn Antenna 0.2 – 2GHz, 7/16-connector |
| BBHA 9120 G | Broad-Band Horn Antenna 0.4 – 2.8GHz, 7/16-connector |
| BBHA 9120 J | Broadband horn antenna optimized for the gain in 1 m distance from 800MHz to 6.2GHz. Especially optimized for automotive immunity. Power limited by the N-connector. The N-connector can withstand ca. 400 Watt at 4GHz. |
| BBHA 9120 K | Horn antenna 400Mhz - 1.6GHz optimized for GM/Ford/Toyota radar testing lower band. Optimized for maximum gain in 1 m distance. Under free space conditions 600V/m using a 250 W amplifier in the range 1.2-1.4GHz can be reached. |
| BBHA 9120 LF | Broad-Band Horn Antenna 0.7 – 6GHz, N-connector |
| BBHA 9170 | Broad-Band Horn Antenna 15 – 26.5 (40)GHz, SMA-compatible connector |
| HA 9250-12 | Pyramidal standard gain horn Antenna, 1-2GHz, 7/16-connector, 20 dBi, optimized for far field gain. |
| HA 9250-24 | Pyramidal standard gain horn Antenna, 2 – 4GHz, 7/16-connector, 20 dBi, optimized for far field gain. |
| HA 9250-48 | Pyramidal standard gain horn Antenna, 4 – 8GHz, 7/16-connector, 20 dBi, optimized for far field gain. |
| HA 9251-12 | Pyramidal standard gain horn Antenna, 1-2GHz, 7/16-connector, far field gain 19-22 dBi, optimized for 1 m gain. |
| HA 9251-24 | Pyramidal standard gain horn Antenna, 2 – 4GHz, 7/16-connector, 18 dBi, optimized for the gain in 1 m distance. |
| HA 9251-48 | Pyramidal standard gain horn Antenna, 4 – 8GHz, 7/16-connector, 19 dBi, optimized for the gain in 1 m distance. |
| HWRD750 | Double ridged horn antenna 7.5-18GHz with waveguide flange WRD750. Gain 16-21 dBi, 1 kW, especially to generate very high field strengths. |
| Dual polarized horn antennas | |
| CTIA 0710 | CTIA horn antenna, dual polarized, 0,7-10GHz, typ. 30 dB cross polar rejection, antenna with reduced size for OTA measurements. Antenna without 22 mm tube! |
| Opt. CTIA tube 22 mm | Option for CTIA 0710: 22 mm tube with indexing ring. |
| BBHX 9120 E | Dual polarized Broad-Band Horn Antenna 0.4 – 10GHz, N-connectors |
| BBHX 9120 LF | Dual polarized Broad-Band Horn Antenna (0.8) 1 – 8 (10.5)GHz, N-connectors |
| Active Antennas | |
| VAMP 9243 | Vertical active rod antenna, 9KHz - 30MHz, BNC, reduced noise floor, with mounting nut for AM 9144 and rechargeable battery. |
| Opt. GP | Option: Aluminum Ground plane, 0.6 x 0.6 m |
| Opt. ACS 110 | Option: Charger ACS 110 |
| Opt. Divider | Option 20 dB plug in divider to measure high field strength |
| Opt. CA 9243 | Calibration Adapter for VAMP 9243 |
| Opt. MIL461F bonding | Bonding kit for VAMP 9243 acc. MIL-STD-461F consisting of a BNC cable double shielded ca. 70 cm, with braid current blocking ferrite in the center, elbow aluminum angle with BNC bulkhead adapter. |
| EFS 9218 | Active Electric Field Probe with Biconical Elements, 9KHz - 300MHz, 12 μ V/m - 65 V/m, antenna factor switchable 46 dB/m or 20 dB/m, high symmetry, built in rechargeable battery |
| Opt. ACS 110 | Option: Automatic charger ACS 110 for EFS 9218 |
| EFS 9219 | Active antenna holder, high sensitivity (1 μ V/m ... 3 V/m), 9KHz-30MHz, BBUK 9139 biconical elements required. |
| Opt. Tube | Option: Isolating tube with braid chokes for EFS 9219 |
| Opt. ACS 110 | Option: Automatic charger Ansmann ACS 110 for EFS 9219 |

| Field probes | |
|---------------------------------|---|
| FSH3D | Isotropic H-Field Antenna for the Rohde and Schwarz handheld spectrum analyzer FSH or the TS-EMF System 9KHz - 200 (300)MHz. Light weight low attenuation radom, outer diameter ca. 150 mm. The selection of the active loop and the power supply for the antenna is provided by the included short cable that can directly be connected to the R&S FSH. |
| FSE3D | Isotropic E-field antenna for the Rohde und Schwarz handheld spectrum analyzer FSH or the TS-EMF System (25) 30MHz - 3GHz. Light weight low attenuation radome, outer diameter ca. 150 mm. The selection of the active loop and the power supply for the antenna is provided by the included short cable that can directly be connected to the R&S FSH. |
| FSHPH | Passive H-Field probe for handheld spectrum analyzers to measure large magnetic fields to analyze health effects of non-ionizing radiation acc. to standards like BGV-B11, ICNIRP, IEEE C95.1, FCC 96-236. |
| FSHPE | Passive E-field probe for handheld spectrum analyzers to measure large electric fields to analyze health effects of non-ionizing radiation acc. to standards like BGV-B11, ICNIRP, IEEE C95.1, FCC 96-236. |
| Automotive antennas | |
| NMHA 6M | Nissan and Renault antenna set to test immunity against handy transmitters according to Nissan specification 28401NDS02 [6] and RENAULT 36-00-808/L (combined set) consisting of normal mode helical antennas, counterpoise, SBA 9113 with 420NJ elements and transport case (see extra list) |
| VW TL 82166 2009-05 Antenna Set | Antenna set acc. to Volkswagen Specification VW TL 82166:2009-05 section 7.3 "antenna set for mobile radio testing using mobile portable radio units inside the vehicle." The set consists of: NMHA 26.5, NMHA 27.5, NMHA 28.5, NMHA 29.5, NMHA 71, NMHA 77, NMHA 83.75, NMHA 151, NMHA 166, SBA 9113 mini version total length of the balun LH=20 cm without the small original biconical elements, 420 NJ, Spacer 50, VW metal case large with short 22 mm tube, VW metal case small with short 22 mm tube, MSS 9630, AD Nm BNCf, AD Nm Nm Case for all parts CCA VW. |
| 420 NJ | Elements for radiated immunity caused by handy transmitters with SBA 9113 or SBA 9113 mini version for the Ford standard RI115. |
| Opt. Spacer 50 | Spacer made of Polystyrene to set the 420 NJ test distance to 50 mm. |
| 422 NJ | Elements for radiated immunity caused by handy transmitters for SBA 9119. |
| Spacer 30 for 422 NJ | Spacer for 422 NJ. Test distance 30 mm. |
| WAND0918 | Wireless Immunity "Wand" Antenna acc. to Dell Specification „SYSTEM IMMUNITY TO WIRELESS GSM TEST REQUIREMENT" 800MHz -2GHz. |
| RS 9244 | Radiating source for CISPR/D/391/CD (CIS/D/386/CD, CIS/D/388A/CC), consisting of a 500 mm brass rod with 4 mm diameter and 2 aluminum angles with N-connectors. |
| Comet SB14 | Comet SB-14 mobile antenna for 50MHz with PL connector. |
| Diamond CR6 | CR-6 mobile antenna for 50MHz with PL connector. |
| Diamond CR11 | CR-11 mobile antenna for 26-28MHz with PL connector. |
| EGG 900 | Antenna for IMMUNITY TO ON-BOARD TRANSMITTERS (PSA EQ/IR 05, ISO 11452-9 B.4.2) for GSM 900, GSM 850 and PDC 800 bands (890-915MHz) |
| EGG 1860 | Antenna for IMMUNITY TO ON-BOARD TRANSMITTERS (PSA EQ/IR 05, ISO 11452-9 B4.3.3) for GSM 1800, UMTS, GSM 1900 and PDC 1500 bands (1710-2025MHz). |
| FAN 405 | Symmetrically folded antenna w. housing 380-430MHz according to ISO 11452-9 B.4.8 |
| FAN 450 | Symmetrically folded antenna w. housing 430-470MHz according to ISO 11452-9 B4.9 |
| HLC 27 | Helical T-antenna with housing according to ISO 11452-9 B4.5, 26.96-27.4MHz. |
| HLC 146 | Helical antenna with top cone & housing according to ISO 11452-9 B.4.6, 144-148MHz. |
| HLC 170 | Helical antenna with top cone & housing according to ISO 11452-9 B.4.7, 168-173MHz. |
| PCD 2440 | Antenna for IMMUNITY TO ON-BOARD TRANSMITTERS (PSA EQ/IR 05, ISO 11452-9 B.4.4) for Bluetooth band (2402 – 2480MHz) |

| Tuned Sleeve Antennas | |
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| TSA 385 | Tuned sleeve antenna 373-397MHz acc. ISO 11452-9 B.3 |
| TSA 400 | Tuned sleeve antenna 387-419MHz acc. ISO 11452-9 B.3 |
| TSA 415 | Tuned sleeve antenna 407-423MHz acc. ISO 11452-9 B.3 |
| TSA 430 | Tuned sleeve antenna for Toyota TSC7006G or ISO 11452-9 B.3, 425-435MHz |
| TSA 455 | Tuned sleeve antenna 437-470MHz acc. ISO 11452-9 B.3 |
| TSA 835 | Tuned sleeve antenna for Toyota TSC7006G, VSWR = 1.5 or better at 835MHz. |
| TSA 880 | Tuned sleeve antenna 806-958MHz acc. ISO 11452-9 B.3 |
| TSA 900 | Tuned sleeve antenna for Toyota TSC7006G, VSWR = 1.5 or better at 900MHz. |
| TSA 1270 | Tuned sleeve antenna for Toyota TSC7006G, VSWR = 1.5 or better at 1270MHz. |
| TSA 1440 | Tuned sleeve antenna 1440-1453MHz acc. ISO 11452-9 B.3 |
| TSA 1750 | Tuned sleeve antenna 1.14-2.0GHz acc. ISO 11452-9 B.3 |
| TSA 1950 | Tuned sleeve antenna for Toyota TSC7006G, VSWR = 1.5 or better at 1950MHz. |
| Passive Rod Antenna | |
| VPMP 9241 | Monopole acc. to CISPR/D/391/CD (CIS/D/386/CD, CIS/D/388A/CC), passive, 2 N-connectors, element fixture for rod, rod, aluminum housing and ground plane. |
| Opt. TLD 9241 | Top loading disc for VPMP 9241 diameter < 12 cm. |
| VPMP 9242 | Vertical passive rod antenna, 10 – 40MHz, possible rods: FBAB 9177, FBAL 9178, BBA 9106, BBAL 9136 (have to be ordered extra) |
| Opt. GP | Option: Aluminum ground plane 0.6 x 0.6 m |
| Helical antennas | |
| HLX 0810- LHCP | Helical antenna 800 - 1000MHz, left circular polarization, gain 11 dBc, 22 mm tube, N-jack. |
| HLX 0810- RHCP | Helical antenna 800 - 1000MHz, right circular polarization, gain 11 dBc, 22 mm tube, N-jack. |
| CLSA 0110L | Conical Log Spiral Antenna 1-10GHz, typ. gain 2 dBi, N-connector, left threaded. |
| CLSA 0110R | Conical Log Spiral Antenna 1-10GHz, typ. gain 2 dBi, N-connector, right threaded. |
| Opt. 0110 Radome | Radome for CLSA 0110 L/R |
| Magnetic Antennas, TX-Loop Antennas | |
| HFRA 5148 | Circular transmitting loop antenna diam. 180 mm, 1 turn |
| HFRA 5149 | Circular transmitting loop antenna 9KHz – 30MHz, diam. 500 mm including 50 Ohm 20 Watt termination, N-connectors. |
| HFRA 5152 | Circular transmitting loop antenna diam. 250 mm, DC-3MHz |
| HFRA 5153 | Circular transmitting loop antenna diam. 180 mm, 0-20 (30)MHz, 5 W |
| HFRA 5154 | Circular transmitting loop antenna diam. 100 mm, 0.1 – 30MHz, Transformer 50 Ohm, 0.5 W |
| HFRA 5155 | Circular Transmitting VHF – UHF loop antenna, diam. 50 mm, |
| HFRA 5156 | Circular Transmitting Loop Antenna diam. 50 mm, 0-5MHz, 2 W, 10 turns |
| HFRA 5157 | Circular Transmitting Loop Antenna diam. 50 mm, 0-20(30)MHz, 3 W, 2 turns |
| HFRA 5158 | Circular Transmitting Loop Antenna diam. 180 mm, 0-2MHz, 5 W, 10 turns |
| HFRA 5159 | Circular Transmitting Loop Antenna diam. 250 mm, 0-400KHz, 5 W |
| HFRA 5170 | Cal. Loop 3 W, diam. 100 mm, 0-30MHz, 1 turn, 250 Ohm |
| HFRA 1356 | Circular Transmitting Loop Antenna diam. 250 mm, resonating at 13.56MHz |
| HFRA SF02G | Tunable resonant magnetic loop antenna to generate extremely high magnetic fields in the range 10KHz to 30MHz acc. to VG95373-13:2008-11 and VG95373-23:2008-11. Including sensor loop HFRAE 5163 und control cable. |
| Passive Magnetic Antennas, RX-Loop Antennas | |
| HFRAE 5160 | Receiving VHF – UHF loop antenna, diam. 50 mm, 2-300MHz, transformer |
| HFRAE 5161 | HF RX Loop, diam. 100 mm, 70 k-120MHz, 1 turn, transformer |
| HFRAE 5162 | VLf-HF RX Loop, diam. 250 mm, 50 k-30MHz, 1 turn, transformer |
| HFRAE 5163 | Passive magnetic loop antenna 9KHz – 300MHz, 1 turn, transformer, diam. 50 mm |

| CISPR 15 3-dimensional loop antenna van Veen | |
|---|--|
| HXYZ 9170 | 3-dimensional large loop antenna, diam. 2 m, acc. EN 55015 / CISPR 15, Socket and Coaxial switch recommended |
| Socket for HXYZ 9170 | Socket and mounting equipment for large loop HXYZ 9170 |
| Opt. fold HXYZ 9170 | Option foldable for HXYZ 9170: The joints of the base version of HXYZ are stiff. The option foldable replaces the stiff joints which have to be removed by screws by rotatable connections. Only one locking pin per joint has to be removed to collapse the antenna. The socket will additionally be equipped with wheels. This option allows to park the antenna folded close to a wall and to set it up in less than 5 minutes. |
| Coaxial Switch for HXYZ 9170 | 3 in one coaxial switch for manual / remote operation including cable set (3 BNC cables with braid current blockers) for large loop HXYZ 9170 |
| 12 V PS f. Coax. Sw. | 12 V DC ultra low emission trafo wall outlet plug in power supply for Coaxial Switch of HXYZ 9170, not required in case of manual switching or if switched remotely by a Schwarzbeck receiver or by an R&S receiver with 12V/100mA on pin 25 of the USER-Port. Is required in all other cases e.g. for R&S receivers with AUX Port or with USER-Port without 12V/100mA on Pin 25. |
| HXYZ 9170-RS USER Ad | HXYZ 9170-RS USER Adapter for remote control of the HXYZ 9170 Coaxial Switch by an R&S receiver with USER Port. 12 V Power Supply for Coaxial Switch eventually required! |
| HXYZ 9170-RS AUX Ad. | HXYZ 9170-RS AUX Adapter for remote control of the HXYZ 9170 Coaxial Switch by an R&S receiver with AUX Port. 12 V Power Supply for Coaxial Switch required! |
| HFCD 9171 | Calibration Balun / Dipole for HXYZ 9170 (recommended accessory: AM 9144) |
| CDA 9271 | Adapter to hold HFCD 9171 on AM 9144, 3/8" female large camera thread. |
| HXYZ 9170 3m | 3-dimensional large loop antenna, diam. 3 m, acc. EN 55015 / CISPR 15, Socket and Coaxial switch recommended. Annex C CISPR 16-1-4 Ed 3 Fig. C7 not applicable to the 3 m version, higher tolerances for the transmission between 10 and 30MHz will apply. |
| Opt. Sockel 3m | Option: Socket and mounting equipment for large loop HXYZ 9170 3m |
| Coaxial Sw. 3m | Accessory: 3 in one coaxial switch for manual / remote operation including cable set (3 BNC cables with braid current blockers) for large loop HXYZ 9170 3m |
| Active Loop Antennas / Magnetic Field Probes | |
| FMZB 1513 | Active loop antenna, 9KHz to 30MHz, constant antenna factor 20 dB/m with built in NiMH-batteries, detachable glass fiber handle 180 mm. Optimized for mobility. |
| Opt. ACS 110 | Option: Charger ACS 110 for FMZB 1513. |
| Opt. 500 mm Handle | Option for FMZB 1513: Additional glass fiber handle of 500 mm length. |
| CCA 1512 | Transport case for FMZB 1512 and charger |
| CCA 1513 | Transport case for FMZB 1513 and accessories. |
| FMZB 1519 B | Active magnetic loop antenna acc. to CISPR 16, 9KHz to 30MHz, constant Antenna factor 20 dB/m, built in rechargeable NiMH-battery. |
| Opt. ACS 110 | Option: ACS 110 charger for FMZB 1519 B |
| HMDA 1545 | Handheld magnetic field meter, LCD, acustic fieldstrength indication with tone generator, 9 kHz-50 (80) MHz, 200µA/m ... 1 A/m, 6 x Type AA NiMH. |
| HFS 1546 | Active magnetic Field Probe with shielded 50-mm-Loop, 150KHz – 400MHz |
| Opt. ACS 110 | Option: ACS 110 charger for HFS 1546 |
| FMZB 1512 | Active magnetic loop antenna with 15 cm loop diameter for mobile applications with built in rechargeable batteries, 9KHz to 30MHz, antenna factor adjustable. |
| Opt. ACS 110 | Option: ACS 110 charger for FMZB 1512 |
| Opt. 22mm tube 3/8 | Option: Short 22 mm tube (ca. 120 mm) with 3/8-inch thread male on top. Can be screwed into the bottom of FMZB 1513. Using this part FMZB 1513 can be held by AA 9202 or AA 9203 in different orientations. |
| Opt. 1513 Stand | Option: Holder or stand to put FMZB 1513 on a table. |
| Modification | Modification of position 5 (22 mm tube): Not 120mm but 475mm long. |

| Helmholtz Coils, Electro Magnets | |
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| MagTest System | Schwarzbeck-Software to test Immunity against magnetic fields and to calibrate monitoring loops. Fulfills standards like MIL-461 E, ISO 11452-8, EN 61000-4-8, SAE J551-17 and others. Control of all required devices via GPIB. |
| NFPA 9730 | Universal audio frequency power amplifier DC - 250KHz for magnetic field immunity testing, 60 V peak, 40 A peak. |
| NFCN 9731 | Universal matching network with built in shunt resistor to compensate for the inductance of Helmholtz coils, GPIB or RS232 controllable. |
| SHUNT 9571 | Low inductive high power precision shunt resistor DC-250KHz, 2 x 0,5 Ohm / 400 W, 1 x 1 Ohm / 800 W, 1 x 250 mOhm / 800 W respectively for best matching at low frequencies, cooling fans. Note: If you order the compensation network NFCN 9731 an additional shunt is not required as the network al-ready contains a shunt. |
| HHS 5201-6 | Helmholtz Coils circular up to 2860 A/m 5MHz for DuT size 45 mm. |
| HHS 5201-98 | Helmholtz Coils circular up to 64 kA/m 200KHz for DuT size 45 mm. |
| HHS 5202-9 | Helmholtz Coils, circular, diam. 200 mm, 3053 A/m 2,5MHz acc. MIL-STD 461E |
| HHS 5202-81 | Helmholtz Coils, circular, diam. 200 mm, 3000 A/m 300KHz acc. MIL-STD 461E |
| HHS 5204-12 | Helmholtz Coils, circular, diam. 400 mm, 2500 A/m 500KHz MIL-STD 461E |
| HHS 5204-36 | Helmholtz Coils, circular, diam. 400 mm, 2500 A/m 150KHz MIL-STD 461E |
| HHS 5206-16 | Circular pair of Helmholtz coils, diameter 600 mm, up to 2100 A/m, max. current 55 A. |
| HHS 5206-132 | Circular pair of Helmholtz coils, diameter 600 mm, up to 4713 A/m, max. current 15 A. |
| FESP 5210-1 | 1 x 1 m induction coil side length 100cm, 1 turn, EN 61000-4-8. |
| HHS 5210 | Helmholtz Coils up to 300 A/m constant H field, 1 m x 1 m, 10 turns per coil, EN 61000-4-8, VDE 0847 part 4-8 |
| HHS 5210-100 | Helmholtz Coils up to 2183 A/m constant H field, 1 m x 1 m, 100 turns per coil, EN 61000-4-8, VDE 0847 part 4-8 |
| HHS 5210-100-2,5 | Helmholtz coil pair, square shaped, side length 1 m, 100 turns with 2.5 mm diameter copper wire (for higher currents with less heat dissipation) |
| HHS 5212 | Helmholtz Coils up to 250 A/m H field, 1.20m x 1.20 m, 10 turns. |
| HHS 5213-50 | Helmholtz Coils 1.25 m x 1.25 m, 50 turns per coil, acc. EN 55103-2 A.2.1.b) |
| HHS 5213-100 | Helmholtz Coils 1.29 m x 1.29 m, 100 turns per coil. |
| HHS 5215 | Helmholtz Coils up to 200 A/m constant H field, 1,5 m x 1,5 m, 10 turns per coil |
| HHS 5215-100 | Helmholtz Coils up to 2000 A/m constant H field, 1,5 m x 1,5 m, 100 turns per coil |
| HHS 5218 | Helmholtz Coils up to 126 A/m constant H field, 1,8 m x 1,8 m, 10 turns per coil |
| HHS 5230-100 | Pair of Helmholtz coils according to SAE J551-17: 2 square coils with a side length of 3 m, 100 turns, max. 650 A/m, each coil movable separately on a wheeled platform. |
| NFCN 9731-100 | Matching network for HHS 5230-100 for the following frequencies: 16,666 Hz; 50 Hz; 60 Hz; 150 Hz; 180 Hz. Recommended amplifiers: 2 units of AE Techron 7224. |
| NFCN 9732-xx | Compensations network with a fixed capacitor of xx microfarad capacity. Lowers the total impedance of a series circuitry of HHS and NFCN at a fixed design frequency. |
| AGEM 5520 | Air gap electromagnet for extreme high magnetic field strengths of up to 2.2 Tesla. |
| HS 5136 | Hall probe to measure magnetic fields DC-200KHz including 30 V power supply. |
| Opt. 5136 ZG | Zero-Gauss-chamber to shield from external magnetic fields to calibrate hall probe HS 5136. |
| FESP 5132 | Radiating loop diam. 12 cm, 20 turns, DC to 250KHz, max 15 A, 2x Banana jack 4mm, ISO 11452-8, MIL-STD 461E p. 108, EN 55103 5.18.3.2 |
| Opt. LoopHolder50 | Calibration fixture to hold FESP 5134-40 in FESP 5132 in a distance of 50 mm acc. MIL461E figure RS101-3. |
| FESP 5134-40 | Loop Sensor / Antenna, diam. 4 cm, 51 turns, 5 Hz to 250KHz, electrostatic shielding, BNC jack |
| FESP 5133 | Loop Sensor / Antenna, 36 turns in 4 layers, diam. 133 mm, EN 55103-1 A.2.b), EN 55103-2 A.4.1 0 – 200KHz, banana plugs (standard) or BNC connector female. |
| FESP 5133-9 | Circular Transmitting Loop Antenna, 133mm diameter, 10KHz to 3MHz, including 5cm distance ring, suitable for VG 95377 Part 13 or Volvo Immunity against magnetic fields.. |
| FESP 5133-7/41 | Circular shielded loop sensor to determine the magnetic field strength 5 Hz – 250KHz. 36 turns AWG 7/41, diameter 133 mm, distance gauge 7 cm included. MIL 461E RE101 or RS101 alternative test procedures. |
| FESP 5133 1330 | Circular radiating loop for extremely high field strength up to several mT, 225 turns, acc. SF 01 G, VG95377. |
| FESP 5135 | Radiating coil diam. 0.5 m, 20 turns in one layer, acc. EN 55103-2 A.3.1 |

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| RSAL 5340 | LF 3-dimensional magnetic rolling stock antenna for the lower frequency range acc. to CLC/TS 50238-3:2010. 10KHz to 100KHz. |
| RSAH 5324 | 3-dimensional magnetic rolling stock antenna for the higher frequency range acc. to CLC/TS 50238-3:2010. 100KHz to 1.3MHz. |
| RSA COVER | Dirt and weather protection cover to house the rolling stock antennas RSAL 5340 or RSAH 5324 and to fix the antenna to the rail track. |
| LFPA 9733 | Universal audio frequency power amplifier DC - 250 kHz for magnetic field immunity testing, 60 V peak, 40 A peak, protected against overvoltage, short at the output or overtemperature. |

| Antenna Masts / Tripods / Adapters | |
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| AM 9104 | Detachable Antenna Mast System (glass-fiber tubing) for VHF-UHF Antennas, manual height scanning 0.4 m to 4 m, insulated mast and antenna box with 0°/90° detents, zinc-plated / stainless steel 3-leg mast foot. |
| AM 9104 GF | Detachable Antenna Mast System (glass-fiber tubing) for VHF-UHF Antennas, manual height scanning 0.4 m to 4 m, insulated mast and antenna box with 0°/90° detents, 3-leg mast foot made of glass fiber. |
| Opt. wheels (2) | Option: Caster Wheels and Brakes for zinc-plated / stainless steel 3-leg mast foot |
| AM 9144 T-05 | Glass fiber telescopes for antenna tripod/mast AM 9144, height range adjustable by screw 510-940mm, 3/8"-thread on top, 55mm shaft to be inserted into a mast foot |
| AM 9144 T-08 | Glass fiber telescopes for antenna tripod/mast AM 9144, height range adjustable by screw 700-1300mm, 3/8"-thread on top, 55mm shaft to be inserted into a mast foot |
| AM 9144 T-09 | Glass fiber telescopes for antenna tripod/mast AM 9144, height range adjustable by screw 800-1510mm, 3/8"-thread on top, 55mm shaft to be inserted into a mast foot |
| AM 9144 T-12 | Glass fiber telescopes for antenna tripod/mast AM 9144, height range adjustable by screw 1050-1950mm, 3/8"-thread on top, 55mm shaft to be inserted into a mast foot |
| AM 9144 M-VA | Robust 3-leg-mastfoot made of stainless steel with 55mm-inlet |
| AM 9144 M-GFK | Low reflective 3-leg-mastfoot made of glass fiber reinforced plastics with 55 mm-inlet |
| AM 9144 W-VA | Caster wheels and brakes for stainless foot AM 9144 M-VA |
| AM 9144 W-GFK | Caster wheels and brakes for GF-foot AM 9144 M-GFK |
| AM 9144 E-05 | Accessory for AM 9144: extender rod with 3/8" thread male on top and 3/8" thread female on bottom. Allows to extend by a fixed length. Length: 430mm |
| AM 9144 E-08 | Accessory for AM 9144: extender rod with 3/8" thread male on top and 3/8" thread female on bottom. Allows to extend by a fixed length. Length: 600mm |
| AM 9144 E-09 | Accessory for AM 9144: extender rod with 3/8" thread male on top and 3/8" thread female on bottom. Allows to extend by a fixed length. Length: 710mm |
| AM 9144 E-12 | Accessory for AM 9144: extender rod with 3/8" thread male on top and 3/8" thread female on bottom. Allows to extend by a fixed length. Length: 900mm |
| AA 9202 | Mast Adapter for AM 9144 with 22 mm hole for most Antenna models, 3/8" and 1/4" camera threads, polarization continuously adjustable. |
| AA 9202 POM | Non metallic mast adapter for most light weight Antenna models with 22 mm tube, minimizes reflections, 3/8" camera thread, polarization continuously adjustable. |
| AA 9203 | Mast Adapter for AM 9144 with 22 mm hole for most Antenna models, 3/8" and 1/4" camera threads polarization and elevation continuously adjustable |
| AA 9205 | Orthogonal Swivel Adapter for positioning in 3 perpendicular directions. Application: determination of the magnitude of the field strength |
| AA 9209 | Antenna adapter to fix STLP 9128 E, STLP 9128 E special, STLP 9128 D, STLP 9128 D special on AM 9144. Allows antenna rotation without height adjustment. Antenna can be fixed in the center of gravity without any collision with the AM 9144 during polarization change. |
| AA 9213 | Adapter to convert a 3/8" female thread to 22 mm tube, e.g. to fix BBHA 9170 on AM 9104. |
| RS 9214 | Adapter to convert the R&S Aluminum Flange into 22 mm tube with indexing ring. |
| RA 9215 | Indexing adapter for fast & precise polarization change. |
| R&S Flange | R&S Flange for Schwarzbeck antenna with 22 mm tube. |
| KG 9201 | Mast Adapter (swivel, 90° vertical/horizontal polarization for AM 9144), for VULP 9118 D,E,F,G and VUSLP 9111 E only |
| PPS 9208 | Pneumatic polarization shifter with 2-way pneumatic cylinder for all Schwarzbeck antennas with 22 mm tube on AM 9144. Compressed air required. |
| PDG 9211 | Polarization changer jig for large horn antennas. Allows easy polarization change of large horn antennas on AM 9144. Connection to AM 9144: 3/8" female thread. Antenna will be held close to center of gravity. Polarization change by rotating along circular metal curve by one single person without any height offset. |
| Opt. 9211 PN | Additional option for PDG 9211: polarization change with pneumatic cylinder and 12V valve 5/2 ways. |
| Opt. 9211 J | Specific accessories to fix BBHA 9120 J to PDG 9211. (rotating ring, braces, short central tube, fixture materials). If ordered together with the antenna we will fix everything before shipment. |

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| Opt. 9211 F | Specific accessories to fix BBHA 9120 F to PDG 9211. (rotating ring, braces, short central tube, fixture materials). If ordered together with the antenna we will fix everything before shipment. |
| SWHA 9204 | Swivel handle for light antennas |
| EA 9207 | Adapter for Schwarzbeck antennas with 22 mm tube on EMCO mast. |
| TA 9204 | Thread Adapter with 3/8" female and 1/4" male threads. Mainly for American antenna brands. |
| TA 9205 | Thread Adapter with 1/4" female and 3/8" male threads. (For camera tripods, not for AM 9144) |
| TA 9206 | Thread Adapter with 3/8" female and 5/8" male threads. (Geodesy) |
| POSITIONER | Positioner for light weight antennas like SBA 9113 with 420 NJ. The positioner consists of: 1 piece of glass fiber tube 22 mm thick, 1000 mm long, an adapter AA 9203 is mounted to the tube. The other end of the tube carries a 3/8 inch male camera thread. |
| LISN Line Impedance Stabilization Networks | |
| NSLK 8127 | V-LISN, 9KHz – 30MHz, 50 μ H + 5 Ohm 50 Ohm, 250 μ H isolating choke can be shorted, 2 x 16 A Schuko socket, Artificial Hand. |
| NSLK 8127 RC | V-LISN, 9KHz – 30MHz, 50 μ H + 5 Ohm 50 Ohm, 250 μ H isolating choke, 2 x 16 A Schuko socket, Artificial Hand. Built in RC for LISN: Remote Control with built in power supply. LISN can be controlled by R&S or Schwarzbeck code, LISN can be selected from the R&S receiver menu or in the EMC32 software like an R&S LISN. No programming of the user interface necessary. Functions: path selection and PE grounded or via choke. Remote control cable RCCAB required depending on receiver type. |
| NSLK 8127 PLC | V-LISN, 9KHz – 30MHz, 50 μ H + 5 Ohm 50 Ohm, 250 μ H isolating choke, 2 x 16 A Schuko socket, Artificial Hand. Additional PLC ranges built in: Power Line Communication, according to EN 50065-1, selectable ranges: 3 – 9KHz, 9 – 95KHz, 95KHz – 30MHz. |
| NSLK 8122 | V-LISN, 9KHz – 30MHz, 50 μ H + 5 Ohm 50 Ohm, 250 μ H isolating choke, 2 x 50 A, cooling fans, wing terminals, max. 1000 V DC, 750 V AC. |
| NSLK 8122 RC | V-LISN, 9KHz – 30MHz, 50 μ H + 5 Ohm 50 Ohm, 250 μ H isolating choke, 2 x 50 A, cooling fans, wing terminals, max. 1000 V DC, 750 V AC. Built in RC for LISN: Remote Control with built in power supply. LISN can be controlled by R&S or Schwarzbeck code, LISN can be selected from the R&S receiver menu or in the EMC32 software like an R&S LISN. No programming of the user interface necessary. Functions: path selection and PE grounded or via choke. Remote control cable RCCAB required depending on receiver type. |
| NSLK 8126 | V-LISN, 9KHz – 30MHz, 50 μ H + 5 Ohm 50 Ohm, 250 μ H isolating choke, 2 x 16 A Schuko and 4 x 16 A CEKON socket, Artificial Hand. |
| NSLK 8126 RC | V-LISN, 9KHz – 30MHz, 50 μ H + 5 Ohm 50 Ohm, 250 μ H isolating choke, 2 x 16 A Schuko and 4 x 16 A CEKON socket, Artificial Hand. Built in RC for LISN: Remote Control with built in power supply. LISN can be controlled by R&S or Schwarzbeck code, LISN can be selected from the R&S receiver menu or in the EMC32 software like an R&S LISN. No programming of the user interface necessary. Functions: path selection and PE grounded or via choke. Remote control cable RCCAB required depending on receiver type. |
| NSLK 8128 | V-LISN, 9KHz – 30MHz, 50 μ H + 5 Ohm 50 Ohm, 250 μ H isolating choke, 2 x 16 A Schuko and 4 x 32 A CEKON socket, Artificial Hand. |
| NSLK 8128 RC | V-LISN, 9KHz – 30MHz, 50 μ H + 5 Ohm 50 Ohm, 250 μ H isolating choke, 2 x 16 A Schuko and 4 x 32 A CEKON socket, Artificial Hand. Built in RC for LISN: Remote Control with built in power supply. LISN can be controlled by R&S or Schwarzbeck code, LISN can be selected from the R&S receiver menu or in the EMC32 software like an R&S LISN. No programming of the user interface necessary. Functions: path selection and PE grounded or via choke. Remote control cable RCCAB required depending on receiver type. |
| NSLK 8163 | V-LISN, 9 kHz – 30 MHz, 50 μ H + 5 Ohm 50 Ohm, 250 μ H isolating choke, 4 x 63A, CEE connector 63 A on front panel, on the back side we install a CEE plug 63 A with ca. 1.5m cable, internal artificial hand, cooling fans. |

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| NSLK 8163 RC | V-LISN, 9 kHz – 30 MHz, 50 μ H + 5 Ohm 50 Ohm, 250 μ H isolating choke, 4 x 63A, CEE connector 63 A on front panel, on the back side we install a CEE plug 63 A with ca. 1.5m cable, internal artificial hand, cooling fans. Built in RC for LISN: Remote Control with built in power supply. LISN can be controlled by R&S or Schwarzbeck code, LISN can be selected from the R&S receiver menu or in the EMC32 software like an R&S LISN. No programming of the user interface necessary. Function: path selection and PE grounded or via choke. Remote control cable RCCAB required depending on receiver type. |
| NNLK 8121 | V-LISN, 9KHz – 30MHz, 50 μ H + 5 Ohm 50 Ohm, 250 μ H isolating choke, 4 x 50 (100) A, wing terminals (For continuously 100 A add the options cont. high current and cooling fans!) |
| NNLK 8121 RC | V-LISN, 9KHz – 30MHz, 50 μ H + 5 Ohm 50 Ohm, 250 μ H isolating choke, 4 x 50 (100) A, wing terminals (For continuously 100 A add the options cont. high current and cooling fans!) Built in RC for LISN: Remote Control with built in power supply. LISN can be controlled by R&S or Schwarzbeck code, LISN can be selected from the R&S receiver menu or in the EMC32 software like an R&S LISN. No programming of the user interface necessary. Function: path selection. Remote control cable RCCAB required depending on receiver type. |
| Opt. cont. high current | Option: cont. high current, additional terminals to bypass the 250 μ H chokes, provides less voltage drop and less heating. |
| Opt. 400/700 V | Option: 400/700 V Voltage to Neutral / Voltage between lines |
| Opt. Fans | Option: Cooling Fans |
| NNLK 8129 | V-LISN, (9) 150KHz – 30MHz, 50 μ H 50 Ohm, 4 x 200 (300) A, wing terminals, low voltage drop, High power resistors |
| NNLK 8129 RC | V-LISN, (9) 150KHz – 30MHz, 50 μ H 50 Ohm, 4 x 200 (300) A, wing terminals, low voltage drop, High power resistors. Built in RC for LISN: Remote Control with built in power supply. LISN can be controlled by R&S or Schwarzbeck code, LISN can be selected from the R&S receiver menu or in the EMC32 software like an R&S LISN. No programming of the user interface necessary. Function: path selection. Remote control cable RCCAB required depending on receiver type. |
| Opt. 400/700 V | Option: 400/700 V Voltage to Neutral / Voltage between lines |
| Opt. Fans | Option: Cooling Fans |
| NNLK 8130 | V-LISN, (9) 150KHz – 30MHz, 50 μ H 50 Ohm, 4 x 400 (500) A, wing terminals, low voltage drop, High power resistors, cooling fans. |
| NNLK 8130 RC | V-LISN, (9) 150KHz – 30MHz, 50 μ H 50 Ohm, 4 x 400 (500) A, wing terminals, low voltage drop, High power resistors, cooling fans. Built in RC for LISN: Remote Control with built in power supply. LISN can be controlled by R&S or Schwarzbeck code, LISN can be selected from the R&S receiver menu or in the EMC32 software like an R&S LISN. No programming of the user interface necessary. Function: path selection. Remote control cable RCCAB required depending on receiver type. |
| Opt. 400/700 V | Option: 400/700 V Voltage to Neutral / Voltage between lines |
| Opt. RCCAB1 | Remote Control Cable for Schwarzbeck LISN with Option RC and the following EMI receiver types: Schwarzbeck FMLK 1518, FCKL 1528, FCLE 1535. |
| Opt. RCCAB2 | Remote control cable for Schwarzbeck LISN with option RC for the following EMI receivers: Rohde & Schwarz EMI receivers equipped with a 25 pin user port: ESHS30, ESPI, ESCS, ESCI, ESU, Agilent MXE receivers with a 25 pin AUX/IO port. |
| Opt. RCCAB3 | Remote Control Cable for Schwarzbeck LISN with Option RC and the following EMI receiver types: Rohde & Schwarz EMI receivers equipped with a 9 pin AUX port: ESL (with option R&S FSL-B5 only), ESR, ESRP. |
| Opt. RCCAB4 | Remote control cable for Schwarzbeck LISN with option RC for the following EMI receivers: Gauss Instruments TDEMI with 25 pin user port |
| Opt. RCCAB5 | Remote control cable for Schwarzbeck LISN with option RC for the following EMI receivers: PMM 9010 with DSUB15 jack |
| Opt. RCCAB6 | Remote control cable for Schwarzbeck LISN with option RC for the following EMI receivers: Rohde & Schwarz ESIB |
| NNLK 8140 | Single Path V-LISN, (9) 150KHz – 30MHz, 50 μ H 50 Ohm, 1 x 800 A continuously (1000 A short time), wing terminals, low voltage drop, High power resistors, cooling fans. Max. Voltage: 1000 V DC or 650 V AC 50/60 Hz. |
| Opt. TC | Temperature control for LISN with 2 thresholds: Threshold 1: Fans will be automatically switched on, threshold 2: alarm signal optically and acoustically. |

| Single path LISN (Automotive) CISPR 25 / ISO 7637 | |
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| NNBM 8124 BNC | Automotive LISN acc. CISPR 25 and ISO 7637-2 and for BCI-Testing. Impedance ($5\mu\text{H} + 1\text{ Ohm}$) 50 Ohm. Max. 70 (100) A. With switchable 50 Ohm load and switchable 1 microfarad capacitor at mains side, single path, BNC female connector. 40x60x40 cm and ca. 8 kg |
| NNBM 8124 N | Automotive LISN acc. CISPR 25 and ISO 7637-2 and for BCI-Testing. Impedance ($5\mu\text{H} + 1\text{ Ohm}$) 50 Ohm. Max. 70 (100) A. With switchable 50 Ohm load and switchable 1 microfarad capacitor at mains side, single path, N female connector. 40x60x40 cm and ca. 8 kg |
| <p>N-Connector - The N-type is a thread on connector with a long neck. This provides excellent EMI protection. In many cases > -90 dB for RF leakage which is dependent on the manufacturer and cable type. The N-type comes in 4 flavors. The standard 50 Ohm, the 75 ohm, the reverse polarity and the 18 GHz version. Most basic models go to 11 GHz and most high frequency versions go to 18 GHz. The N Type is better in higher voltage 2500 Vrms at 50Hz for most N-Connector types vs. 500Vrms for the BNC-connector types.</p> <p>BNC Connector - This connector has many advantages: easy to disconnect and connect. You know when the connector locks it snaps. Like the N Type the BNC is hard to damage. The BNC comes in three flavors. Standard 50 Ohm, 75 Ohm and reverse polarity connector. It is a great Snap-On connector. The BNC's are usually limited to DC to 4 GHz and it can snap off just as easy as it snaps on. If you are in a high vibration environment the BNC may not be suitable. High power High EMI issues the BNC is known to leak RF. The good ones will be -55dB to 3GHz the lesser ones can be as low as -25dB and even lower if a poorly shielded cable is attracted.</p> <p>The differences between the two connectors are the Vrms and the frequency response.</p> | |
| CAP 10-100 | 10 microfarad capacitor 500 V, 400 Hz, built into an adapter, which can be applied to the mains terminals of the LISN types NNBM 8126 A, NNBM 8124 or NNBM 8126 A 890 (all models up to 100A). |
| NNBM 8124-200 BNC | Automotive LISN acc. CISPR 25 and ISO 7637-2 and for BCI-Testing. Impedance ($5\mu\text{H} + 1\text{ Ohm}$) 50 Ohm. Max.200 A. With switchable 50 Ohm load and switchable 1 microfarad capacitor at mains side, single path, BNC female connector. |
| NNBM 8124-200 N | Automotive LISN acc. CISPR 25 and ISO 7637-2 and for BCI-Testing. Impedance ($5\mu\text{H} + 1\text{ Ohm}$) 50 Ohm. Max.200 A. With switchable 50 Ohm load and switchable 1 microfarad capacitor at mains side, single path, N female connector. |
| CAP 10-200 | 10 microfarad capacitor 500 V, 400 Hz, built into an adapter, which can be applied to the mains terminals of the LISN types NNBM 8126 D, NNBM 8124-200 (all models up to 200A). |
| NNBM 8124-400 BNC | Automotive LISN acc. CISPR 25 and ISO 7637-2 and for BCI-Testing. Impedance ($5\mu\text{H} + 1\text{ Ohm}$) 50 Ohm. Max. 400 A. With switchable 50 Ohm load and switchable 1 microfarad capacitor at mains side, single path, BNC female connector. |
| NNBM 8124-400 N | Automotive LISN acc. CISPR 25 and ISO 7637-2 and for BCI-Testing. Impedance ($5\mu\text{H} + 1\text{ Ohm}$) 50 Ohm. Max. 400 A. With switchable 50 Ohm load and switchable 1 microfarad capacitor at mains side, single path, N female connector. |
| NNBM 8126 A 890 | LISN $5\mu\text{H}$ 50 Ohm, 70 (100) single path. Similar to NNBM 8126 A but suitable for 600V DC and 270 V AC 890 Hz. Calibrated up to 400MHz according to DO-160. |
| CAL DO-160 | Option for NNBM 8126 A 890. Calibration up to 400MHz according to DO-160 |
| HV-LISN acc. to CISPR 25 Ed. 4 or BMW GS 95025-1 | |
| NNHV 8123 | High Voltage LISN acc. to CISPR 25 Ed. 4 or BMW GS 95025-1 to measure the conducted disturbance voltage on shielded lines for (hybrid) electric vehicles (HEV, EV), can be used for BCI with an external dummy load, impedance ($5\mu\text{H}$) 50 Ohm. 70 (100) A, 1000 V DC. Backside with built in 0.1 microfarad capacitor to ground, N-jack. Normally used in pairs inside the enclosure HVSE 8600! |
| NNHV 8123-200 | High Voltage LISN acc. to CISPR 25 Ed. 4 or BMW GS 95025-1 to measure the conducted disturbance voltage on shielded lines for (hybrid) electric vehicles (HEV, EV), can be used for BCI with an external dummy load, impedance ($5\mu\text{H}$) 50 Ohm. 200 A, 1000 V DC. Backside with built in 0.1 microfarad capacitor to ground, N-jack. Normally used in pairs inside the enclosure HVSE 8600! |

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| NNHV 8123-400 | High Voltage LISN acc. to CISPR 25 Ed. 4 or BMW GS 95025-1 to measure the conducted disturbance voltage on shielded lines for (hybrid) electric vehicles (HEV, EV), can be used for BCI with an external dummy load, impedance (5 μ H) 50 Ohm. 400 A, 1000 V DC. Backside with built in 0.1 microfarad capacitor to ground, N-jack. Normally used in pairs inside the enclosure HVSE 8600! |
| NNHV 8123-800 | High Voltage LISN acc. to CISPR 25 Ed. 4 or BMW GS 95025-1 to measure the conducted disturbance voltage on shielded lines for (hybrid) electric vehicles (HEV, EV), can be used for BCI with an external dummy load, impedance (5 μ H) 50 Ohm. 800 A, 1000 V DC. Backside with built in 0.1 microfarad capacitor to ground and suitable discharge resistor, N-jack. To be used in pairs inside a shielded enclosure HVSE 8601! |
| HVSE 8600 | Shielded housing for 2 HV-LISN, 2 paths with cable feed throughs for HV+ and HV-, shield can be connected to the housing, 2 measurement ports N, 1 monitor port N, with connecting cables between inside measurement ports and outside N-connectors. All models of the NNHV- and NNBM-series can be inserted. For full CISPR 25 Ed. 4 compliance a modification of the back side circuitry of the NNBM series is required! |
| Opt. 8600-blanco | 1 pair of flange panels for HVSE 8600. Mains side with no connector or feed through. DuT side with only 2 x N-feed throughs for AUX and 2 x N feed throughs for RF-HV+ and RF- HV-. Feed throughs for HV+ and HV- must be drilled and assembled by customer. |
| Opt. 8600-100 | 1 pair of flange panels for HVSE 8600 with cable feed throughs for shielded cables up to ca. 100 A. |
| Opt. 8600-200 | 1 pair of flange panels for HVSE 8600 with cable feed throughs for shielded cables suitable for max. currents in a range of ca. 100 A to 200 A. |
| Opt. 8600-400 | 1 pair of flange panels for HVSE 8600 with cable feed through for shielded cables suitable for a range of ca. 200 A to 400 A. |
| HVSE 8601 | Shielded housing for 2 units of HV-LISN NNHV 8123-800, with cable feed throughs for HV, shield can be connected to the housing, 2 measurement ports N, 2 monitor ports N, with connecting cables between inside measurement ports and outside N-connectors. |
| Opt. 8601-800 | 1 pair of flange panels for HVSE 8601 with cable feed throughs for shielded cables suitable for a range of ca. 400 A to 800 A. |
| BAN Broadband Artificial Networks acc. ISO 11452-7 or DC-10614 | |
| BAN 8508 | BAN broadband artificial network 2 A - 8 A acc. ISO 11452-7 or DC-10614 |
| BAN 8530 | BAN broadband artificial network 8 A - 30 A acc. ISO 11452-7 or DC-10614 |
| DC-Block 500 | DC-blocking capacitor BNC for direct injection with BAN |
| LISN according to MIL 461 MIL 462 | |
| NNBL 8225 | V-LISN (9) 150KHz – 100MHz, 50 μ H + 5 Ohm 50 Ohm, 20 A, 50 Hz AC 250V, single path, Mil. Std. 461/462. |
| NNBL 8226 | V-LISN (9) 150KHz – 100MHz, 50 μ H + 5 Ohm 50 Ohm, 70 (100) A, 50 Hz AC 250 V, single path, Mil. Std. 461/462. |
| NNBL 8226-HV | V-LISN (9) 150 kHz – 100 MHz, 50 μ H + 5 Ohm 50 Ohm, 70 (100) A, 50 Hz AC 800 V, single path, Mil. Std. 461/462. |
| NNBL 8226-2 | V-LISN (9) 150 kHz – 100 MHz, 50 μ H + 5 Ohm 50 Ohm, 70 (100) A, 50 Hz AC 250 V, two path, Mil. Std. 461/462. |
| NNBL 8229-HV | V-LISN (9) 150 kHz – 100 MHz, 50 μ H + 5 Ohm 50 Ohm, 200 A, one path, Mil. Std. 461/462 |
| NNBL 8230 | V-LISN (9) 150KHz – 100MHz, 50 μ H + 5 Ohm 50 Ohm, 300 A, 50 Hz AC 250 V, single path, Mil. Std. 461/462. |
| NNBL 8240 | V-LISN (9) 150kHz – 100MHz, 50 μ H + 5 Ohm 50 Ohm, 1 x 800 A continuously (1000 A short time), wing terminals, low voltage drop, high power resistors, cooling fans. Max. voltage: 1000 V DC or 650 V AC 50/60 Hz., Mil. Std. 461E/F/G, MIL 462. |
| Special LISN and accessories | |
| NDTV 8160 | Universal Delta-, T-, V-LISN |
| PVDC 8300 | PV LISN, 1500 V, 50 A, common mode impedance 150 Ohm, Z differential mode = 100 Ohm, air coils 280 microhenry. |
| PVDC 8300 Opt. Fans | Option for PVDC 8300: Fans for a maximum continuous current of 100 A. |

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| PVDC 8301 | PV-LISN for the DC side of grid connected power converters GCPC, 1500 V, 200 A, common mode impedance = 150 Ohm, differential mode impedance = 100 Ohm, air coils 280 microhenry. |
| TEMP 8400 | Tempest LISN 9KHz to 1GHz, 2 path model 10 A, N-connectors for DuT power supply and N-connectors for the 2 measurement ports. The unit allows to listen to even the smallest signals on power lines. |
| TEMP 8401 | Adapter N-male to wing terminals for TEMP 8400 |
| NPLC 8500 | LISN acc. to recommendation ITU-T G.9901: 250 Volt 16 A, 1 path, wing terminals, measuring output BNC, to measure the power spectral density of PRIME transceivers for power line communication. |
| CMDM 8700 | Common mode differential mode noise separator for V-LISN, 2 BNC inputs, 1 BNC output. 9KHz-30MHz. |
| ISN / T-Networks | |
| NTFM 8131 | T-ISN 150 Ohm asymmetric 50 Ohm unsymmetric, 2-wire, 400 V AC, 9KHz – 30MHz, CISPR 22 D1/EN55015-2002 |
| NTFM 8158 | ISN T8 CAT6 (LCL = 75 dB) acc. CISPR 22 edition 5.2, figure D.3. for up to 4 pairs UTP. |
| CAT5 8158 | ISN T8 CAT5 (LCL = 65 dB) acc. CISPR 22 edition 5.2, figure D.3. for up to 4 pairs UTP. |
| CAT3 8158 | ISN T8 CAT3 (LCL = 55 dB) acc. CISPR 22 edition 5.2, figure D.3. for up to 4 pairs UTP. |
| EAB8 50-150 | Adapter 50 to 150 Ohm for conducted immunity testing with the ISNs NTFM 8158, CAT5 8158 or CAT3 8158 |
| Mag Base 8158 | Magnetic base for models NTFM 8158, CAT5 8158, CAT3 8158. |
| ISN S8 | ISN for screened RJ45 or RJ11 connections, 2, 4 or 8 wire, acc. D.11 CISPR 22 Ed.5.2. |
| ISN S1 | ISN acc. CISPR 22 Ed.5.5:2006, Annex D, D9 for coaxial lines |
| SR100-6W | Adapter 150 to 50 Ohm for immunity testing with ISN S8, ISN S1 or CDNE M2, M3, 0-500MHz, 6 W, Connectors: BNC female, 4 mm security banana jack. |
| Voltage Probes | |
| TK 9417 | HF-Probe, 2.5 kOhm |
| TK 9420 | High-Voltage-Probe, 1.5 kOhm, 4 pF, 9KHz – 30MHz, RF < 30 V |
| VT 9420 | Plug-In divider 1.5 kOhm for TK 9420 probe for determination of disturbance source impedance |
| TK 9421 | High Power Voltage Probe, 1.5 kOhm, 4 pF, 150KHz – 30MHz RF < 100 V |
| TK 9422 | High Power Voltage Probe, 5 kOhm, 4 pF, (9) 150KHz – 30MHz RF < 100 V |
| Measurement set f. PLC-devices acc. to EN 50561-1 | |
| CU 50561-1 | Coupling unit acc. EN 50561-1:2013 figure 3, R=2,5 kOhm, C=1nF. |
| AC-Separator | AC-separator for EN 50561-1 containing 100nF parallel 1MOhm, Schuko-outlet, 2 x security 4mm lab jacks. |
| SPLIT 100 | 100 Ohm symmetrical splitter acc. EN 50561-1:2011. |
| SY 9223-50561-1 | ISN acc. EN 50561-1:2013 Annex B, figure B.1. |
| CS-50 | Coaxial 50 Ohm splitter 6 dB |
| SYMAT 40 | Symmetrical attenuator f. EN 50561-1, switchable from 0 to 50 dB in 10 dB steps. |
| ISN 50561-1 | ISN acc. EN 50561-1:2013 Annex B, figure B.1. |
| 50561 CABLES | Cables, terminations and connectors for EN 50561-1 testing. Scope of delivery see data sheet "Overview PLC measurement equipment" |
| EMI Receivers | |
| FCKL 1528 | EMI-Receiver acc. CISPR 16-1, 9KHz – 30MHz, 5 Detectors: Quasipeak, Peak, Average, CAV, CRMS. Attenuator with 1 dB steps, Protected Input, Automatic Calibration w. built-in Pulse Generator, GPIB-Interface. |
| Opt. XY-Rec. | Option: 25-pin connector on the back side with analogous voltages for frequency and Interference voltage to connect an XY-recorder. |
| Opt. TG | Option: Built-In Tracking Generator, Output Level 120 dBµV. |
| Opt. Softw. | Option: Schwarzbeck-Software FCKL for EMI-Measurement |
| FCVU 1534 | EMI-Receiver acc. CISPR 16-1, 20 – 1050MHz, 5 Detectors: Quasipeak, Peak, Average, CAV and CRMS, Attenuator with 1 dB steps, Protected Input, Automatic Calibration w. built-in Pulse Generator, GPIB-Interface. |
| Opt. XY-Rec. | Option: 25-pin connector on the back side with analogous voltages for frequency and Interference voltage to connect an XY-recorder. |
| Opt. TG | Option: Built-In Tracking Generator, Output Level 120 dBµV P.D. |
| Opt. Softw. | Option: Schwarzbeck-Software FCVU for EMI-Measurement |

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| BKAB 488 | IEEE 488 cable, 2 m, necessary for PCI card, not necessary for PCMCIA card |
| Pulse Generators | |
| IGUU 2918 | Calibration-Pulse Generator acc. CISPR 16 for Band A, B, C, D (9KHz-1000MHz) To calibrate the pulse response of EMI receivers. Pulse repetition frequency main generator 0.1 – 200 Hz (aux. generator up to 1MHz) with IEEE-488 Interface. |
| Opt. RecTest Softw. | Option: Receiver Test Software for IGUU 2916 or 2918 signal generator and EMI-receiver to perform an automatic calibration of an EMI receiver acc. to CISPR 16-1-1. |
| Opt. KU 9618 | Option: KU 9618 Coaxial Switching Unit for automatic performance tests with IGUU 2918, N-Connectors female |
| IGUF 2910 | Battery driven High Power Pulse Generator, Pulse Repetition Frequency 300 Hz, weighted CISPR Level 80 dB μ V (Quasipeak, 120KHz IF-BW). Broad band signal source up to 300 (1000)MHz w. 0.5 ns Pulses of 300 V at 50 Ohm |
| LGA 9802 | Automatic Charging Unit 230 V for IGUF 2910 |
| Accessories | |
| Coaxial Cables | |
| RG223/U | 50 Ohm coaxial cable with N- or BNC-plugs, double shielded, flexible, robust, suitable for measurements with LISN |
| RG223/U - Price Per Meter | Price per Meter |
| AK 9513 | 50 Ohm Coax. Cable with N plugs, individual length, usable up to 3 (5)GHz, Cal. possible if cable longer than 3 m. Standard lengths: 3 m, 5 m, 10 m. |
| AK 9513 - Price per Meter | Price per Meter |
| AK 9515 D | 50 Ohm Coaxial Cable with N plugs, low loss, limited flexibility, usable up to 10 (18)GHz, 10.5 mm diam. Cal. possible if cable longer than 1 m. |
| AK 9515 D - Price per Meter | Price per Meter |
| AK 9515 E | 50 Ohm Coaxial Cable with N plugs, low loss, good flexibility, usable up to 10 (18)GHz, 10.8 mm diam. Cal. possible if cable longer than 1 m. |
| AK 9515 E - Price per Meter | Price per Meter |
| AK 9515 G | 50 Ohm Coaxial Cable available with N- or 7/16-plugs, very low loss, high power, good flexibility, usable up to 6GHz, 14.6 mm diam. Cal. possible if cable longer than 1 m. |
| AK 9515 G - Price per Meter | Price per Meter |
| AK 9515 H | 50 Ohm Microwave Coaxial Cable with N- or SMA-connectors, low loss, flexible, usable up to 18GHz. Cal. possible if cable longer than 1 m. |
| AK 9515 H - Price per Meter | Price per Meter |
| MSS 9630 | Sheath current blocking cable to avoid coupling effects caused by braid currents. Standard configuration: N-male, N-female, length ca. 0.3 m |
| Fixed Attenuators | |
| DGA 9552 N | Bidirectional Attenuator N-female N-male to 18GHz, 50 Ohm 5 Watt. Available values: 3 dB, 6 dB, 10 dB, 20, 30, 40 dB. |
| DGA 9553 BNC | Attenuator BNC-female BNC-male up to 1GHz, 50 Ohm 1 Watt. Available values: 3 dB, 6 dB, 10 dB, 20, 30, 40 dB. |
| VTSD 9561 F-BNC | Diode Pulse Limiter + 10 dB Attenuation, fuse lamp, input BNC-female, output BNC-male. |
| VTSD 9561 F-N | Diode Pulse Limiter + 10 dB Attenuation, fuse lamp, input N-female, output N-male. |
| VTSD 9561 D-BNC | Diode Pulse Limiter + 20 dB Attenuation, fuse lamp, input BNC-female, output BNC-male. |
| VTSD 9561 D-N | Diode Pulse Limiter + 20 dB Attenuation, fuse lamp, input N-female, output N-male. |
| VTSD 9562 | Bandpass and Limiter for Partial Discharge Measurements BNC. |
| Current Clamps and calibration adapters | |
| 9602 | Current Transformer, shielded, 0.01 - 200MHz, Transfer Impedance: 1 Ohm for wires up to 6.5 mm. |

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| 9603 | Current Transformer, shielded, 9KHz - 150MHz, Transfer Impedance: 1 Ohm for wires up to 14 mm. |
| 9605 | Current Transformer Clamp CISPR 22, 9KHz - 80MHz, Transfer Impedance: 1 Ohm for wires up to 23 mm. |
| 9606 | Current injection clamp for RF current injection into harnesses up to 23 mm diameter, transducer 18 dB. |
| CA 9607 | Universal calibration adapter for current clamps, test jig for ferrites, length adjustable. |
| CA 9608 | Universal calibration adapter for e.g. the following current clamps: R&S ESV-Z1, Prodyn, IT-050-1, length and height settable. |
| Baluns | |
| SY 9223-120 | Balun for transmission measurements acc. to IEC61643-21. 50 Ohm N to 120 Ohm screw terminals. |
| SY 9223- CISPR 13 | Broad band isolation transformer acc. CISPR 13 fig. A.2, 50 Ohm 75 Ohm. |
| SY 9223-PLC | 1:1 PLC Balun acc. to EN 50065-2-1 2003 + A1:2005 für Immunity against small band disturbance voltage. 3KHz - 30MHz, BNC and banana jacks. |
| IN 9223-PLC | Opt. for SY 9223-PLC: 2 μ F + 50 Ohm, in isolated housing, banana jacks. |
| SY 9501 | Balun unsymm. 50 Ohm to symm. 150 Ohm EN 55015, CISPR 15 |
| SY 9223-17-100 | Broadband transformer 1:1,4 or 50 Ohm : 100 Ohm respectively acc. to CISPR 17 for filter measurements. 100 Ohm-side with banana jacks. 50 Ohm-side with BNC-jacks. |
| SY 9223-17-0.1 | Broadband transformer 22:1 or 50 Ohm : 0.1 Ohm respectively acc. to CISPR 17 for filter measurements. 50 Ohm-side with BNC-jacks, 0.1 Ohm-side with banana jacks. |
| SY 9223-100 | Balun, input BNC jack 50 Ohm unsymmetrical, output 1: banana jacks 100 Ohm symmetrical, output 2: RJ 45 jack Pin 4,5 100 Ohm symmetrical, frequency range: 9KHz to 60MHz, max. power: 1W |
| SY 9223-120B | Balun, input BNC jack 50 Ohm unsymmetrical, output 1: banana jacks 120 Ohm symmetrical, output 2: RJ 45 jack Pin 4,5 120 Ohm symmetrical, frequency range: 9KHz to 60MHz, max. power: 1W |
| SY 9223-135 | Balun, input BNC jack 50 Ohm unsymmetrical, output 1: banana jacks 135 Ohm symmetrical, output 2: RJ 45 jack Pin 4,5 135 Ohm symmetrical, frequency range: 9KHz to 60MHz, max. power: 1W |
| SY 9223-150 | Balun, input BNC jack 50 Ohm unsymmetrical, output 1: banana jacks 150 Ohm symmetrical, output 2: RJ 45 jack Pin 4,5 150 Ohm symmetrical, frequency range: 9KHz to 60MHz, max. power: 1W |
| SY 9223-7637-4 | Balun to insert strong CW signals 0,1...30MHz into HV-lines acc. to ISO 7637-4. 150 Vpp, Guanella Balun, N-jack, symmetrical side 4 mm security lab jacks. Max. power 100 Watt. |
| Other passive devices | |
| BD 9501 | IEEE-488 Bus-Feed through for flange mounting (shielded rooms) (other feed throughs on request) |
| CAN 280 | Coupling network type A acc. to CISPR 16-1-2 chapter C.1. for example to measure the decoupling factor DR of the absorbing clamp MDS 21 acc. to CISPR 16-1-3 B.3.2. |
| HPF | High Pass Filter 35 - 1000MHz, Insertion loss at 27.12MHz typ. 100 dB |
| TF 130-150 | Test Fixture for Ford RI 130/ 150 Per EMC-CS-2009 |
| VDHH 9502 | Van der Hoofden test head with protection network and individual calibration of the network acc. IEC62493 or VDE 0848-493. |
| CISPR 17 Equipment | Transformers, fixtures and adapters to measure filters, ferrites and other passive components. Detailed product list and data sheets on request. |
| BN 1701 | Buffer network (set of 2 pieces) acc. CISPR 17 Annex D2, D3, max. current: 32A, connectors: wing terminals, BNC female. |
| HPF 150 k | Highpass filter 150kHz for improved selectivity of receivers for conducted voltage measurements. |
| CCC 9224 | Capacitive coupling clamp for transients acc. to ISO 7637-3 or DC-10614 B.5. |
| CCP 9225 | Capacitive coupling plate similar to ISO 7637-3 acc. to MBN 10284-2, 2011-04 or MBN 10284-4, 2011-04 for CV tests. |
| Preamplifiers | |
| BBV 9743 | Broadband Coaxial Preamplifier gain max. 30 dB, 10MHz – 6GHz, low noise floor, N-jack N-plug, including power supply. |

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| BBV 9744 | Broadband Coaxial Pre-amplifier gain max. 30 dB, 9KHz – 6GHz, low noise floor, N-jack N-plug, including power supply. |
| BBV 9745 | Broadband Coaxial Pre-amplifier gain max. 30 dB, 9KHz – 2GHz, low noise floor, N-jack N-plug, improved ESD protection, including power supply. |
| BBV 9718 | Broadband Coaxial Pre-amplifier typ. 33 dB, 1 - 18GHz with fixture for 22 mm antenna tube, and N to SMA cable, power supply 12 V 250 mA necessary. |
| Opt. PS | Option Power supply for BBV 9718 or 9719. |
| Opt. Battery | Option Rechargeable battery pack for BBV 9718 or 9719. |
| Opt. ALCS 2-24A | Battery charger ALCS 2-24A for rechargeable battery pack |
| BBV 9719 | Broadband Coaxial Pre-amplifier typ. 33 dB, 18-26.5GHz, power supply 12 V 300 mA necessary. Including short cable with SMA plugs to connect the BBV 9719 with the antenna (for example BBHA 9170). |
| Opt. PS | Option Power supply for BBV 9718 or 9719. |
| Opt. Battery | Option Rechargeable battery pack for BBV 9718 or 9719. |
| Opt. ALCS 2-24A | Battery charger ALCS 2-24A for rechargeable battery pack. |
| BBV 9721 | Broadband Coaxial Pre-amplifier typ. 30 dB, 18-40GHz. Including short cable with 2.92 plugs to connect the BBV 9721 with the antenna (for example BBHA 9170). Noise figure 5.5 dB, P1dBmin=15 dBm, VSWR max in/out = 2,6. |
| Opt. PS 9721 | Power supply unit for BBV 9721 including cables with security plugs, can be used for 110 and 230 V. |
| Opt. PS 9721 Battery | Power supply unit for BBV 9721 including cables with security plugs, can be used for 110 V and 230 V. Built in rechargeable battery. This unit can supply power to the BBV 9721 without connection to mains. Charging electronics also included. |
| Reference radiators, comb generators | |
| SG 9301 | Spectrum Generator 30-1000MHz, spectrum lines switchable 100 Hz – 1MHz, N-female connector, charger ACS 110 required, main application: reference radiator (antenna required e.g. UBAA 9114 with BBVU 9135) |
| Opt. ACS 110 | Option: Charger ACS 110 for SG 9301. |
| SG 9302 | Comb generator 0.1 – 18GHz, spectrum lines every 100MHz, battery driven, including charger for 230 V. |
| Field probes | |
| VUFM 1670 | E-Field Meter 70KHz-3GHz, 1V/m-300V/m, linear polarized, charger ACS 110 required. |
| VUFM 1671 | LCD-Display Unit for VUFM 1670 with 5 m fiber optical link, Additional cost for longer fiber: Euro 5,00/m, charger ACS 110 required. |
| Other active devices | |
| VHIC 9260 | Impedance converter acc. CISPR 25 9KHz - 30 (120)MHz. |
| Opt. ACS 110 | Option: Charger ACS 110 for VHIC 9260. |
| CA 9260 | Artificial antenna acc. CISPR 25 Ed. 3 to verify the impedance converter VHIC 9260. |
| CVP 9222 B | High Impedance Capacitive Voltage Probe acc. to CISPR 22, EN 55022 C 1.3. Frequency range: 9KHz – 100MHz. |
| Opt. ACS 110 | Option: Charger ACS 110 for CVP 9222 B. |
| Opt. CAL 9222 B | Option: Calibration Adapter for CVP 9222 B. |
| Near Field Probes | |
| FS-SET 7100 | Nearfield Probe Set including HFSL, HFSH, EFS and Separator EW and AC/DC Adaptor in storing case. |
| HFSL 7101 | Active Near Field Probe (magnetic) 9KHz - 30MHz (EW 7110 required) |
| HFSH 7102 | Active Near Field Probe (magnetic) 4MHz - 1000MHz (EW 7110 required) |
| EFS 7103 | Active Near Field Probe (electric) 9KHz - 1000MHz (EW 7110 required) |
| EW 7110 | Coaxial DC-Separator for Near Field Probes HFSL, HFSH, EFS |
| ACDC 7110 | AC/DC Adapter for DC-Separator EW 7110 |
| Striplines | |
| TEMZ 5231 | 50 Ohm Strip line according to ISO 11452-5 for automotive testing, 4.3 x 1.5 x 0.15 m, septum with cylindrical rods, N-connectors, wooden base construction and termination required. Crate Included. Crate Dimensions: [cm] 165x95x36. Total weight: 80kg |
| Opt. Termination 150 | Option: 50 Ohm termination, N-jack, 150 Watt, connecting cable for TEMZ 5231 |
| Opt. Termination 500 | Option: 50 Ohm termination, N-jack, 500 Watt, connecting cable, for TEMZ 5231 |

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| Opt. Foldaway | Instead of cylindrical rods to hold the septum there will be side arms. The cell can be folded away vertically. A stainless steel construction with caster wheels supports the cell. Must be ordered together with TEMZ 5231, cannot be refitted. |
| TEMZ 5232 | 90 Ohm Strip line according to ISO 11452-5 for automotive testing, 3.5 x 0.9 x 0.15 m, N-connector, built-in termination 90 Ohm, 50 W, wooden base construction required. |
| TEMZ 5233 | Closed, unsymmetrical 50 Ohm strip line DC - 420 (600)MHz, Crawford TEM Cell, for E- field probe and H-field probe calibration and for immunity testing. ISO 11452-3, IEEE 1309 und EN 61000-4-20. |
| Decoupling and Absorbing Clamps | |
| MDS 21 B | Absorbing clamp acc. CISPR 16-1-3, system Meyer de Stadelhofen / Lüthi, frequency range 30 - 1000Mhz, 50 Ohm, incl. 6 dB attenuator, RF cable N(m)- N(m) 5 m RG223U, and traceable calibration (certificate according ISO17025) |
| FTC 40X15 E | Common Mode Absorption Device (CISPR 16-1-4, CISPR 16-2-3, CISPR 11 ed. 6.0) cable sizes up to 20 mm, incl. traceable calibration (certificate according ISO17025) |
| MDS 22 | Absorbing clamp 300MHz - 2.5GHz (3GHz) as per CISPR 16 |
| EM 101 | RF Injection clamp, (10kHz) 150kHz - 1000MHz, 100W, 4 kV, max. cable diame-ter 22mm as per IEC 61000-4-6. |
| FTC 101 | Decoupling clamp for EM 101 RF injection clamp |
| CDNE f. emission meas. on luminaries acc. to EN 55015 | |
| CDNE M2 | CDNE with tight tolerances for CISPR 15 emission measurements with 2 mains conductors can also be used as CDNE AF2. |
| CA CDNE M2 Part A | Part A of the calibration or short adapter for CDNE M2 |
| CA CDNE Part B | Part B of the calibration or short adapter for CDNE M2 or M3 |
| SR100-6W | Adapter 150 to 50 Ohm for CDNE or ISN e.g. ISN S8 or CDNE M2, 0-500 MHz, 6 W, connectors: BNC female, 4 mm security banana jack. |
| CDNE M3 | CDNE w. tight tolerances f. CISPR 15 emission measurements w. 3 mains lines. |
| CA CDNE M3 Part A | Calibration or short adapter for CDNE M3 part A. |
| Linear dummy lamps 20 mm diameter with socket G13 / 25 | |
| LN G13 / 25 | Pair of sockets LN G13 according to figure 4 a CISPR 15, socket length 75 mm each, tube sets of the RS G13 / 25 / xxx series required. |
| RS G13 / 25 / 438 | Tube set for LN G13 / 25, max. length of lamp acc. to IEC 438 mm, length of tube 288 mm, Tube diameter 20 mm, 15 W. |
| RS G13 / 25 / 590 | Tube set for LN G13 / 25, max. length of lamp acc. to IEC 590 mm, length of tube 440 mm, Tube diameter 20 mm, 18 W. |
| RS G13 / 25 / 720 | Tube set for LN G13 / 25, max. length of lamp acc. to IEC 720 mm, length of tube 570 mm, Tube diameter 20 mm, 16 W. |
| RS G13 / 25 / 895 | Tube set for LN G13 / 25, max. length of lamp acc. to IEC 895 mm, length of tube 745 mm, Tube diameter 20 mm, 30 W. |
| RS G13 / 25 / 970 | Tube set for LN G13 / 25, max. length of lamp acc. to IEC 970 mm, length of tube 820 mm, Tube diameter 20 mm, 36 W. |
| RS G13 / 25 / 1047 | Tube set for LN G13 / 25, max. length of lamp acc. to IEC 1047 mm, length of tube 897 mm, Tube diameter 20 mm, 38 W. |
| RS G13 / 25 / 1200 | Tube set for LN G13 / 25, max. length of lamp acc. to IEC 1200 mm, length of tube 1050 mm, Tube diameter 20 mm, 36 W. |
| RS G13 / 25 / 1500 | Tube set for LN G13 / 25, max. length of lamp acc. to IEC 1500 mm, length of tube 1350 mm, Tube diameter 20 mm, 58 W. |
| Linear dummy lamps 28 mm diameter with socket G13 / 38 | |
| LN G13 / 38 | Pair of sockets LN G13 according to figure 4 a CISPR 15, socket length 75 mm each, tube sets of the RS G13 / 38 / xxx series required. |
| RS G13 / 38 / 590 | Tube set for LN G13 / 38, max. length of lamp acc. to IEC 590 mm, length of tube 440 mm, Tube diameter 28 mm, 20 W. |
| RS G13 / 38 / 970 | Tube set for LN G13 / 38, max. length of lamp acc. to IEC 970 mm, length of tube 820 mm, Tube diameter 28 mm, 25 W. |
| RS G13 / 38 / 1200 | Tube set for LN G13 / 38, max. length of lamp acc. to IEC 1200 mm, length of tube 1050 mm, Tube diameter 28 mm, 115 W. |
| RS G13 / 38 / 1500 | Tube set for LN G13 / 38, max. length of lamp acc. to IEC 1500 mm, length of tube 1350 mm, Tube diameter 28 mm, 140 W. |

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| RS G13 / 38 / 1800 | Tube set for LN G13 / 38, max. length of lamp acc. to IEC 1800 mm, length of tube 1650 mm, Tube diameter 28 mm, 160 W. |
| RS G13 / 38 / 2400 | Tube set for LN G13 / 38, max. length of lamp acc. to IEC 2400 mm, length of tube 2250 mm, Tube diameter 28 mm, 125 W. |
| Single capped twin tube dummy lamps with socket 2G7 | |
| LN 2G7 | Socket LN 2G7, socket length 47 mm, tube sets of the RS 2G7 / xxx series required. |
| RS 2G7 / 85 | Tube set for LN 2G7, max. length of lamp acc. to IEC 85 mm, length of tube 38 mm, Tube diameter 13 mm, 5 W. |
| RS 2G7 / 115 | Tube set for LN 2G7, max. length of lamp acc. to IEC 115 mm, length of tube 68mm, Tube diameter 13 mm, 7 W. |
| RS 2G7 / 145 | Tube set for LN 2G7, max. length of lamp acc. to IEC 145 mm, length of tube 98mm, Tube diameter 13 mm, 9 W. |
| RS 2G7 / 215 | Tube set for LN 2G7, max. length of lamp acc. to IEC 215 mm, length of tube 168mm, Tube diameter 13 mm, 11 W. |
| U-shape tube dummy lamps with socket 2G13 | |
| LN 2G13 | Socket LN 2G13, socket length 75 mm, tube sets of the RS 2G13 / xxx series required. |
| RS 2G13 / 310 | Tube set for LN 2G13, max. length of lamp acc. to IEC 310 mm, length of tube 235 mm, Tube diameter 20 mm, 20 W. |
| RS 2G13 / 607 | Tube set for LN 2G13, max. length of lamp acc. to IEC 607 mm, length of tube 532 mm, Tube diameter 20 mm, 40 W. |
| RS 2G13 / 765 | Tube set for LN 2G13, max. length of lamp acc. to IEC 765 mm, length of tube 690 mm, Tube diameter 20 mm, 65 W. |
| Circular dummy lamps | |
| LN G10q / 28 / 216 | Complete circular dummy lamp according to figure 4 b CISPR 15, max. diameter of lamp acc. to IEC 216 mm, Tube diameter 20 mm, 22 W. |
| LN G10q / 32 / 311 | Complete circular dummy lamp according to figure 4 b CISPR 15, max. diameter of lamp acc. to IEC 311 mm, Tube diameter 28 mm, 32 W. |
| LN G10q / 32 / 413 | Complete circular dummy lamp according to figure 4 b CISPR 15, max. diameter of lamp acc. to IEC 413 mm, Tube diameter 28 mm, 40 W. |
| LN Fa6 | Pair of sockets LN Fa6, socket length 75 mm each, tube sets of the RS Fa6 / xxx series required. |
| RS Fa6 / 590 | Tube set for LN Fa6, max. length of lamp acc. to IEC 590 mm, length of tube 440 mm, Tube diameter 28 mm, 16 W. |
| RS Fa6 / 1200 | Tube set for LN Fa6, max. length of lamp acc. to IEC 1200 mm, length of tube 1050 mm, Tube diameter 28 mm, 32 W. |
| RS Fa6 / 1500 | Tube set for LN Fa6, max. length of lamp acc. to IEC 1500 mm, length of tube 1350 mm, Tube diameter 28 mm, 50 W. |
| Related Equipment | |
| Conical cover | Test fixture for energy saving lamps with E27 socket according to figure 7 b CISPR 15 |
| Conical Cover Option E14 | Additional adapter E27-E14 to insert E14 lamps into the conical cover. |
| Conical Cover Option B22d | Additional adapter E27-B22d to insert B22d lamps (common in Great Britain) into the conical cover. |

| Model # | York EMC Services Ltd. Product Description | Parts Included |
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| ARA - Active Receive Antenna | | |
| ARA01KIT01 | ARA01 (30 MHz to 1 GHz active receive antenna) with DAE01 (pair of 100 mm long dipole elements), manual, case, CAL08 (factors from 30 MHz to 1 GHz, measured in a GTEM against known standard). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | ARA01, 2 x DAE01, CAL08 |
| ARA - Active Receive Antenna accessories and calibrations | | |
| DAE01 | Pair of 100mm long dipole antenna elements (200 MHz to 1 GHz optimum) | DAE01 |
| DAE02 | Pair of 270mm long dipole antenna elements (30 MHz to 300 MHz optimum) | DAE02 |
| TRA01 | Tripod Adaptor | TRA01 |
| CAL08 | ARA01 factors from 30 MHz to 1 GHz, measured in a GTEM against known standard | CAL08 |
| ARA Repair | Repair with characterization - 1 major fault found (including CAL08) | CAL08 |
| ARA Repair | Repair with no characterization - 1 major fault found (not including CAL08) | - |
| CCC - Cable Coupling Clamp | | |
| CCC01KIT01 | Cable coupling clamp kit with 2.5 mm, 5 mm and 10 mm cable fittings | CCC01 |
| CCC - Cable Coupling Clamp accessories | | |
| CMF01 | Set of blank un-machined cable fittings for the CCC01. | CMF01 |
| CGE - Comb Generator Emitter | | |
| CGE01KIT01 | CGE01C 18 GHz comb generator with SMA output, 80 MHz & 100 MHz step sizes. Includes BP01 (5 V, 2 Ahr CGE battery pack), BCH04 battery charger, manual, case & CAL13 (output power from 0 GHz to 18 GHz, measured using a spectrum analyzer). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | CGE01C, BP01, BCH04, CAL13 |
| CGE01KIT02 | CGE01R 18 GHz radiating comb generator with 80 MHz & 100 MHz step sizes. Includes BP01 (5 V, 2 Ahr CGE battery pack), BCH04 battery charger, manual, case & CAL09 (radiated field strength at 3m test distance, 1 GHz to 18 GHz, measured in a FAR using a spectrum analyzer.) . Shipping Container 52x42x28cm, | CGE01R, BP01, BCH04, CAL09 |
| CGE01KIT03 | CGE01C 18 GHz comb generator with SMA output, 80 MHz & 100 MHz step sizes and MCN02 monocone antenna (1 GHz to 26 GHz optimum). Includes BP01 (5 V, 2 Ahr CGE battery pack), BCH04 battery charger, manual, case & CAL13 (output power from 0 GHz to 18 GHz, measured using a spectrum analyzer). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | CGE01C, BP01, BCH04, MCN02 & CAL13 |
| CGE01KIT04 | CGE01C 18 GHz comb generator with SMA output, 80 MHz & 50 MHz step sizes. Includes BP01 (5 V, 2 Ahr CGE battery pack), BCH04 battery charger, manual, case & CAL13 (output power from 0 GHz to 18 GHz, measured using a spectrum analyzer). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | CGE01C, BP01, BCH04, CAL13 |
| CGE01KIT05 | CGE01R 18 GHz radiating comb generator with 80 MHz & 50 MHz step sizes. Includes BP01 (5 V, 2 Ahr CGE battery pack), BCH04 battery charger, manual, case & CAL09 (radiated field strength at 3m test distance, 1 GHz to 18 GHz, measured in a FAR using a spectrum analyzer.) . Shipping Container 52x42x28cm, | CGE01R, BP01, BCH04, CAL09 |
| CGE01KIT06 | CGE01C 18 GHz comb generator with SMA output, 80 MHz & 50 MHz step sizes and MCN02 monocone antenna (1 GHz to 26 GHz optimum). Includes BP01 (5 V, 2 Ahr CGE battery pack), BCH04 battery charger, manual, case & CAL13 (output power from 0 GHz to 18 GHz, measured using a spectrum analyzer). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | CGE01C, BP01, BCH04, MCN02 & CAL13 |
| CGE02KIT01 | CGE02C 26 GHz comb generator with SMA output, 250 MHz & 256 MHz step sizes. Includes BP01 (5 V, 2 Ahr CGE battery pack), BCH04 battery charger, manual, case & CAL14 (output power from 0 GHz to 26 GHz, measured using a spectrum analyzer). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | CGE02C, BP01, BCH04 & CAL14 |

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| CGE02KIT02 | CGE02R 26 GHz radiating comb generator with 250 MHz & 256 MHz step sizes. Includes: BP01 (5 V, 2 Ahr CGE battery pack), BCH04 battery charger, manual, case & CAL10 (radiated field strength at 3 m test distance, 1 GHz to 26 GHz, measured in a FAR using a spectrum analyzer). Shipping Container 52x42x28cm, | CGE02R, BP01, BCH04 & CAL10 |
| CGE02KIT03 | CGE02C 26 GHz comb generator with SMA output, 250 MHz & 256 MHz step sizes and MCN02 monocone antenna (1 GHz to 26 GHz optimum). Includes BP01 (5 V, 2 Ahr CGE battery pack), BCH04 battery charger, manual, case & CAL14 (output power from 0 GHz to 26 GHz, measured using a spectrum analyzer). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | CGE02C, BP01, BCH04, MCN02 & CAL14 |
| CGE03KIT01 | CGE03C 40 GHz comb generator with 2.9 mm output connector, 900 MHz & 1 GHz step sizes. Includes BP01 (5 V, 2 Ahr CGE battery pack), BCH04 battery charger, manual, case & CAL15 (output power from 0 GHz to 40 GHz, measured using a spectrum analyzer). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | CGE03C, BP01, BCH04 & CAL15 |
| CGE03KIT02 | CGE03C 40 GHz comb generator with 2.9 mm output connector, 900 MHz & 1 GHz step sizes. Includes BP01 (5 V, 2 Ahr CGE battery pack), BCH04 battery charger, manual, case & CAL15 (output power from 0 GHz to 40 GHz, measured using a spectrum analyzer). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | CGE03C, BP01, BCH04, MCN02 & CAL15 |
| CGE02KIT02 Special | Special CGE02KIT02 Reference comb generator kit including: <ul style="list-style-type: none"> • CGE02R 26 GHz radiating comb generator with 250 MHz & 256 MHz step sizes, • BP01 (5 V, 2 Ahr CGE battery pack), • BCH04 battery charger, • Manual & case • CAL10 (radiated field strength at 3 m test distance, 1 GHz to 26 GHz, measured in a FAR using a spectrum analyser) Note: Radiated output modified to reduce the peak signal level below 10 GHz | CGE03C, BP01, BCH04, MCN02 & CAL15 |
| CGE - Accessories | | |
| MCN02 | Monocone antenna (1 GHz to 26 GHz) accessory for CGE01C, CGE02C and CGE03C | MCN02 |
| BP01 | BP01 (5 V, 2 Ahr) rechargeable battery pack for CGE01, CGE02, CGE03 and YRS01. Including BCH04 universal charger | BP01, BCH04 |
| BP01 w/o charger | BP01 (5 V, 2 Ahr) rechargeable battery pack for CGE01, CGE02, CGE03 and YRS01 | BP01 |
| CGE - Calibrations | | |
| CAL09 | CGE01R radiated field strength, 1 GHz to 18 GHz, measured in a FAR using a spectrum analyzer at 3 m test distance | CAL09 |
| CAL10 | CGE02R radiated field strength, 1 GHz to 26 GHz measured in a FAR using a spectrum analyzer at 3 m test distance | CAL10 |
| CAL13 | CGE01C output power from 0 GHz to 18 GHz, measured using a spectrum analyzer | CAL13 |
| CAL14 | CGE02C output power from 0 GHz to 26 GHz, measured using a spectrum analyzer | CAL14 |
| CAL15 | CGE03C output power from 0 GHz to 40 GHz, measured using a spectrum analyzer | CAL15 |
| CNE - Comparison Noise Emitter | | |
| Last Run of CNE III | Enhanced CNE III kit. Includes: CNE III 9 kHz to 3.5 GHz comparison noise emitter, TLM01 (100 mm long top-loaded monopole, 200 MHz to 1 GHz optimum), TLM02 (270 mm long top-loaded monopole, 30 MHz to 300 MHz optimum), MCN01 monocone antenna (1 GHz to 3.5 GHz optimum with CNE III), LSA03 LISN adapter, manual, case & CAL01 (output power from 9 kHz to 5 GHz measured using a spectrum analyzer) | CNE III, TLM01, TLM02, MCN01, LSA03, CAL01 |

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| CNEVIKIT01 | Basic CNE VI comparison noise emitter kit. Includes: CNE VI 30 Hz to 6 GHz comparison noise emitter, MON03 (270 mm long monopole antenna, 200 MHz to 1 GHz optimum), LSA03 LISN adapter, manual, 4 x "AA" alkaline cells, case & CAL20 (output power from 0 GHz to 6 GHz measured using a spectrum analyzer). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | CNE VI, MON03, LSA03, CAL20 |
| CNEVIKIT02 | Enhanced CNE VI comparison noise emitter kit. Includes: CNE VI 30 Hz to 6 GHz comparison noise emitter, MON03 (270 mm long monopole antenna, 200 MHz to 1 GHz optimum), TLM02 (270 mm long top-loaded monopole, 30 MHz to 300 MHz optimum), MCN03 (120 mm diameter monocone antenna, 1 GHz to 6 GHz optimum), LSA03 LISN adapter, manual, 4 x "AA" alkaline cells, case & CAL20 (output power from 0 GHz to 6 GHz measured using a spectrum analyzer). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | CNE VI, MON03, TLM02, MCN03, LSA03, CAL20 |
| CNEVKIT01 | Basic CNE V comparison noise emitter kit. Includes: CNEV 9 kHz to 1 GHz comparison noise emitter, TLM01 (100 mm long top-loaded monopole, 200 MHz to 1 GHz optimum), manual, 1 x "PP3" alkaline cell, case & CAL03 (output power from 9 kHz to 1 GHz measured using a spectrum analyzer). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | CNE V, TLM01, CAL03 |
| CNEVKIT02 | Enhanced CNEV comparison noise emitter kit. Includes: CNEV 9 kHz to 1 GHz comparison noise emitter, TLM01 (100 mm long top-loaded monopole, 200 MHz to 1 GHz optimum), TLM02 (270 mm long top-loaded monopole, 30 MHz to 300 MHz optimum), LSA03 LISN adapter, manual, 1 x "PP3" alkaline cell, case & CAL03 (output power from 9 kHz to 1 GHz measured using a spectrum analyzer). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | CNE V, TLM01, LSA03, TLM02, CAL03 |
| CNEVKIT03 | Basic CNE V+ comparison noise emitter kit. Includes: CNE V+ 9 kHz to 3.5 GHz comparison noise emitter, TLM01 (100 mm long top-loaded monopole, 200 MHz to 1 GHz optimum), manual, 1 x "PP3" alkaline cell, case & CAL01 (output power from 9 kHz to 5 GHz measured using a spectrum analyzer). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | CNE V+, TLM01, CAL01 |
| CNEVKIT04 | Enhanced CNE V+ comparison noise emitter kit. Includes: CNE V+ 9 kHz to 3.5 GHz comparison noise emitter, TLM01 (100 mm long top-loaded monopole, 200 MHz to 1 GHz optimum), TLM02 (270 mm long top-loaded monopole, 30 MHz to 300 MHz optimum), MCN03 monocone antenna (1 GHz to 6 GHz optimum), LSA03 LISN adapter, manual, 1 x "PP3" alkaline cell, case & CAL01 (output power from 9 kHz to 5 GHz measured using a spectrum analyzer). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | CNE V+, TLM01, LSA03, TLM02, MCN03, CAL01 |
| CNE - Comparison Noise Emitter Accessories | | |
| TLM01 | 100 mm long top-loaded monopole antenna, 200 MHz to 1 GHz optimum. For CNE III, CNE V, CNE V+, CNE VI, YRS01, YRS02, YRS03 | TLM01 |
| TLM02 | 270 mm long top-loaded monopole antenna, 30 MHz to 300 MHz optimum. For CNE III, CNE V, CNE V+, CNE VI, YRS01, YRS02, YRS03 | TLM02 |
| MON02 | Telescopic monopole antenna approx 1 m. For CNE III, CNE V, CNE V+, CNE VI, YRS01, YRS02 | MON02 |
| MON03 | 270 mm long monopole antenna, 200 MHz to 1 GHz optimum. For CNE III, CNE V, CNE V+, CNE VI, YRS01, YRS02, YRS03 (Replaces MCN01) | MON03 |
| MCN03 | 120 mm diameter monocone antenna, 1 GHz to 6 GHz optimum. For CNE III, CNE V+, CNE VI and YRS03 | MCN03 |
| LSA03 | LISN adaptor with IEC type connector | LSA03 |
| NIA01 | ISN adapter with 6-way RJ11/RJ14/RJ25 and 8-way RJ45 connector | NIA01 |
| CNE - Comparison Noise Emitter Calibration | | |
| CAL01 | CNE III or CNE V+ output power. Direct measurement from 9 kHz to 5 GHz using a spectrum analyzer | CAL01 |
| CAL02 | CNE III, CNE V, CNE V+ or CNE VI radiated field strength, 30 MHz to 1 GHz, measured on an OATS at 3 m OR 10 m test distance using a receiver (please specify 3 m or 10 m test distance when ordering) | CAL02 |
| CAL03 | CNE V output power. Direct measurement from 9 kHz to 1 GHz using a spectrum analyzer | CAL03 |

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| CAL04 | CNE III, CNE V, CNE V+ or CNE VI radiated field strength, 30 MHz to 1 GHz, measured on an OATS at 3 m AND 10 m test distance using a receiver | CAL05 |
| CAL06 | CNE III, CNE V, CNE V+ or CNE VI radiated field strength, 30 MHz to 1 GHz, measured in a FAR at 3 m using a receiver or spectrum analyzer | CAL06 |
| CAL07 | CNE VI or CNE VII radiated field strength, 1 GHz to 7 GHz, measured in a FAR using a spectrum analyzer | CAL07 |
| CAL20 | CNE VI output power. Direct measurement from 0 GHz to 6 GHz using a spectrum analyzer. All noise modes | CAL20 |
| CNE Repair | | |
| CNE III Repair | 1 major fault found (includes CAL01) | CAL01 |
| CNE V / V+ | Repair and Calibration: Repair - 1 Major Fault found. Calibration CAL03 | CAL03 |
| CNE VI Repair | 1 major fault found (includes CAL20) | CAL20 |
| HFG - Harmonics Flicker Generator | | |
| HFG01KIT01 | HFG01 - Harmonics & Flicker Generator Includes: manual & CAL12 (measurement of harmonics/flicker generated in relevant modes using power analyzer). Shipping Container 62x52x42cm, 11kg (Shipping Container with unit) | HFG01, CAL12 |
| HFG01KIT01 - Demo | Demo HFG01 - Harmonics & Flicker Generator Includes: manual & CAL12 (measurement of harmonics/flicker generated in relevant modes using power analyzer). Shipping Container 62x52x42cm, 11kg (Shipping Container with unit) | HFG01, CAL12 |
| HFG02KIT01 | HFG02 - Dual supply multifunction Harmonics & Flicker Generator. Includes: manual, mains plug adapter & CAL22 (measurement of harmonics/flicker in relevant modes using power analyzer) | HFG02, CAL22 |
| HFG - Harmonics and Flicker Generator Calibration | | |
| CAL12 | HFG01 Measurement of harmonics/flicker generated in relevant modes using power analyzer | CAL12 |
| CAL22 | HFG02 Measurement of harmonics/flicker generated in relevant modes using power analyzer | CAL12 |
| ISO 17025 | ISO 17025 Test Certificate for HFG01. To comprise an EMC Test Certificate performed by an accredited test laboratory for the following measurements: 1. harmonic emissions to EN61000-3-2:2014 against Class A limits, HFG01 in Steady State Harmonic generation mode. 2. Flicker emissions to EN61000-3-3:2013, against Pst/Plt limits, HFG01 in 1Hz Flicker Generation mode. 3. Flicker emissions to EN6100-3-3:2013, against Pst/Plt limits, HFG01 in 8.3Hz Flicker generation | CAL12 |
| HFG - Harmonics and Flicker Generator Repair | | |
| HFG0X repair | 1 major fault found (includes CAL12 or CAL22 as applicable)) | CAL12/CA22 |
| YRS - York Reference Source | | |
| YRS01KIT01 | YRS01 reference noise/comb source kit. Includes: YRS01 "CGE style" 9 kHz to 1 GHz switchable noise/comb source, MON03 monopole antenna (200 MHz to 1 GHz optimum), manual, BP01 (5V, 2 Ahr battery pack), BCH04 battery charger, case & CAL16 (output power from 9 kHz to 1 GHz measured using a spectrum analyzer, all modes). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | YRS01, MON03, BP01, BCH04, CAL16 |
| YRS01KIT02 | YRS01 reference noise/comb source kit. Includes: YRS01 "CGE style" 9 kHz to 1 GHz switchable noise/comb source, MON03 monopole antenna (200 MHz to 1 GHz optimum), TLM02 top-loaded monopole (30 MHz to 300 MHz optimum), LSA03 LISN adapter, manual, BP01 (5V, 2 Ahr battery pack), BCH04 battery charger, case & CAL16 (output power from 9 kHz to 1 GHz measured using a spectrum analyzer, all modes). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | YRS01, MON03, TLM02, LSA03, BP01, BCH04, CAL16 |
| YRS01 | Includes: YRS01 "CGE style" 9 kHz to 1 GHz switchable noise/comb source, MON03 monopole antenna (200 MHz to 1 GHz optimum), TLM02 top-loaded monopole (30 MHz to 300 MHz optimum), LSA03 LISN adapter, manual & CAL16 (output power from 9 kHz to 1 GHz measured using a spectrum analyzer, all modes). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | YRS01, MON03, TLM02, LSA03, CAL16 |

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| YRS02KIT01 | Basic YRS02 reference noise/comb source kit. Includes: YRS02 "CNEV style" 9 kHz to 1 GHz switchable noise/comb source, MON03 monopole antenna (200 MHz to 1 GHz optimum), manual, 4 x "AA" alkaline cells, case & CAL16 (output power from 9 kHz to 1 GHz measured using a spectrum analyzer, all modes). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | YRS02, MON03, CAL16 |
| YRS02KIT02 | Enhanced YRS02 reference noise/comb source kit. Includes: YRS02 "CNEV style" 9 kHz to 1 GHz switchable noise/comb source, MON03 monopole antenna (200 MHz to 1 GHz optimum), TLM02 top-loaded monopole (30 MHz to 300 MHz optimum), LSA03 LISN adapter, manual, 4 x "AA" alkaline cells, case & CAL16 (output power from 9 kHz to 1 GHz measured using a spectrum analyzer, all modes). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | YRS02, MON03, TLM02, LSA03, CAL16 |
| YRS03KIT01 | Basic YRS03 reference noise/comb source kit. Includes: YRS03 30 MHz to 6 GHz switchable noise/comb source, MCN03 monocone antenna (1 GHz to 6 GHz optimum), manual, 4 x "AA" alkaline cells, case & CAL19 (output power from 30 MHz to 6 GHz measured using a spectrum analyzer, all modes). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | YRS03, MCN03, CAL19 |
| YRS03KIT02 | Enhanced YRS03 reference noise/comb source kit. Includes: YRS03 30 MHz to 6 GHz switchable noise/comb source, MCN03 monocone antenna (1 GHz to 6 GHz optimum), MON03 monopole antenna (200 MHz to 1 GHz optimum), TLM02 top-loaded monopole (30 MHz to 300 MHz optimum), manual, 4 x "AA" alkaline cells, case & CAL19 (output power from 30 MHz to 6 GHz measured using a spectrum analyzer, all modes). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | YRS03, MCN03, TLM02, MON03, CAL19 |
| YRS Combination Kit | Combined YRS reference noise/comb source kit. Includes: YRS02 "CNEV style" 9 kHz to 1 GHz switchable noise/comb source, YRS03 30 MHz to 6 GHz switchable noise/comb source, TLM02 top-loaded monopole (30 MHz to 300 MHz optimum), MON03 monopole antenna (200 MHz to 1 GHz optimum), MCN03 monocone antenna (1 GHz to 6 GHz optimum), LSA03 LISN adapter, manual, 8 x "AA" alkaline cells, case, CAL16 (output power 9 kHz to 1 GHz measured using a spectrum analyzer, all modes) & CAL19 (output power 30 MHz to 6 GHz measured using a spectrum analyzer, all modes). Shipping Container 52x42x28cm, 5kg (Shipping Container with unit) | YRS02, YRS03, TLM02, MON03, MCN03, LSA03, CAL16, CAL19 |
| YRS - Accessories | | |
| TLM01 | 100 mm long top-loaded monopole antenna, 200 MHz to 1 GHz optimum. For CNE III, CNE V, CNE V+, CNE VI, YRS01, YRS02, YRS03 | TLM01 |
| TLM02 | 270 mm long top-loaded monopole antenna, 30 MHz to 300 MHz optimum. For CNE III, CNE V, CNE V+, CNE VI, YRS01, YRS02, YRS03 | TLM02 |
| MON02 | Telescopic monopole antenna approx 1 m. For CNE III, CNE V, CNE V+, CNE VI, YRS01, YRS02 | MON02 |
| MON03 | 270 mm long monopole antenna, 200 MHz to 1 GHz optimum. For CNE III, CNE V, CNE V+, CNE VI, YRS01, YRS02, YRS03 | MON03 |
| MCN03 | 120 mm diameter monocone antenna, 1 GHz to 6 GHz optimum. For CNE III, CNE V+, CNE VI and YRS03 | MCN03 |
| LSA03 | LISN adaptor with IEC type connector | LSA03 |
| NIA01 | ISN adapter with 6-way RJ11/RJ14/RJ25 and 8-way RJ45 connector | NIA01 |
| YRS - Calibration | | |
| CAL16 | YRS01 or YRS02 output power. Direct measurement from 0 GHz to 1 GHz measured using a spectrum analyzer. All noise and comb modes | CAL16 |
| CAL17 | YRS01 or YRS02 radiated field strength. 30 MHz to 1 GHz, measured on an OATS at 3 m OR 10 m test distance using a receiver (please specify which when ordering). All noise and comb modes | CAL17 |
| CAL18 | YRS01 or YRS02 radiated field strength. 30 MHz to 1 GHz, measured in a FAR at 3 m test distance using a receiver or spectrum analyzer. All noise and comb modes | CAL18 |
| CAL19 | YRS03 output power. Direct measurement from 30 MHz to 6 GHz measured using a spectrum analyzer. All noise and comb modes | CAL19 |

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| CAL21 | YRS03 radiated field strength. 1 GHz to 6 GHz, measured in a FAR at 3 m test distance using a receiver or spectrum analyzer. Noise, 20 MHz and 40 MHz comb modes | CAL21 |
| YRS - Repair | | |
| YRS Repair | 1 major fault found (includes CAL16 (YRS01/2) or CAL19 (YRS03) as appropriate | CAL16 or CAL19 |
| Rental | | |
| ARA01 Hire | ARA01KIT01 2 week hire | |
| CCC01 Hire | CCC01KIT01 2 week hire | |
| CGE01 Hire | CGE01KIT03 2 week hire | |
| CGE02 Hire | CGE02KIT03 2 week hire | |
| CGE03 Hire | CGE03KIT02 2 week hire | |
| CNE VI Hire | CNEVIKIT02 2 week hire | |
| CNE V Hire | CNEVKIT02 2 week hire | |
| YRS02 Hire | YRS02KIT02 2 week hire | |
| YRS03 Hire | YRS03KIT02 2 week hire | |
| HFG01 Hire | HFG01KIT01 2 week hire | |