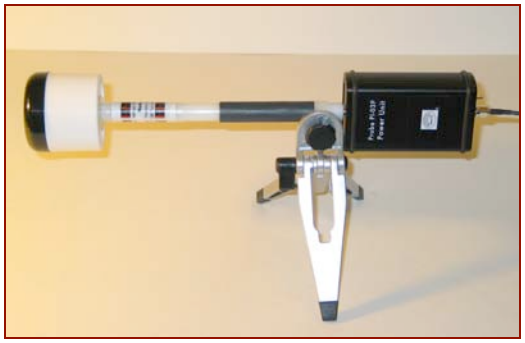
Probe PI-3P for Smart Fieldmeter® Digital

Isotropic Pulsed Electric Field Probe
PI-03P: 100 MHz-18 GHz, 70-1400 V/m



Probe PI-03P

Broadband isotropic electric field probe PI-03P measures the pulsed RF field produced by the **microwave radars**. It has **fast sampling capability** measuring the field strength of RF bursts (pulses) as short as **1 us (one microsecond).** It operates in the frequency range **100 MHz - 18 GHz**, covering the test requirements of MIL STD-461 and automotive EMC GM and Ford specifications.

Main Parameters*

- Diode based 3-Axial isotropic sensor.
- Field strength range: **70-1400 V/m.**
- Pulse duty: 0.01% to 100%.
- Pulse repetition period: 0.1-10 msec.
- Frequency of pulse repetition: 100-10000 Hz.
- Shortest pulse width: **1 us.**
- Longest pulse repetition period: **10 ms**.
- Pulse amplitude measurement variation for fields >**200 V/m** over the range of pulse width (from **1 uS** to 100% duty) and period (0.1-10 msec.): **<1 dB.**
- Pulse amplitude measurement variation for fields >**70 V/m** over the range of pulse width (from **4 uS** to 100% duty) and period (0.1-10 msec.): **<1 dB**.
- Linearity: **+/- 0.5 dB**.
- Frequency response (no corr. factors): 100 MHz-6 GHz (+/- 3 dB), 6-18 GHz (+/- 4 dB).
- Frequency response (with corr. factors): **+/- 1.5 dB.**
- Rotational isotropicity: <1 dB.
- Rechargeable battery operating time: >60 hrs.
- Temperature: 5-40 ℃,
- Humidity (non-condensing): RH 10-90%.
- Temperature error: 0.05 dB/℃.
- UK NPL or NIST traceable calibration.
- Probe size (LxD): 12.0"x2.25" (310x58 mm).
- Power Unit: (LxWxD): 4x2.3x1.3 (100x58x33 mm).
- Weight (probe and power unit): 0.5 lb, 230 g.
- Operates with RFP-05 meter
- Designed and made in the **USA**.

Kit 3PD

Meter RFP-05

** Specification may be changed to reflect the design progress.*