33N TRIPLE PROBE
Electric, Magnetic and Magnetostatics Field

Main Features:

33N (Electric Probe): E Field

- Frequency Range: 1 Hz ÷ 20 kHz
- Dynamic: > 86 dB
- Directivity: Isotropic

33N (Magnetic Probe): B Field

- Frequency Range: 1 Hz ÷ 20 kHz
- Dynamic: > 94 dB
- Directivity: Isotropic

33N (Magnetostatic Probe): B_{DC} Field

- Frequency Range: DC
- Dynamic: > 60 dB
- Directivity: Isotropic

Compatibility:

- NHT310 and NHT3D Meters

Main applications:

- Energy
- Medical
- Automotive
- Railways
- Industrial
- Military

Information subject to change without prior notice

MICR(()) RAD

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Electric, Magnetic and Magnetostatics Field

Description:

The Microrad 33N probe consists of three different sensors combined into one: an electric field sensor (E), a magnetic induction sensor (B) and a static magnetic field sensor (B_{DC}). The operator can select the required sensor type by means of the switch located at the base of the probe.

Each sensor within the probe is based on a set of three mutually orthogonal sensitive elements. The signals from the sensors, corresponding to the spatial components of the selected field, are used by the NHT310 or NHT3D instruments to calculate the isotropic value.

TECHNICAL SPECIFICATIONS			
	E field	B field	B_{DC} field
Field type	Electric	Magnetic induction	Magnetostatic
Sensor type	Capacitor	Coil	Hall
Bandwidth	1 Hz ÷ 20 kHz	1 Hz ÷ 20 kHz	DC
Response type	Flat	Flat	-
Frequency response	±1dB (10Hz÷20kHz) @ 200V/m	±1 dB (10Hz÷20KHz) @ 20 µT	-
Measurement range	1 V/m ÷ 20 kV/m	300 nT ÷ 16 mT	1 µT ÷ 4 mT
Dynamic	86 dB	94 dB	72 dB
Linearity	±0.7 dB (>200V/m) @50Hz	±0.7 dB (>2 µT) @50Hz	±0.5 dB (>10µT)
Directivity	Isotropic	Isotropic	Isotropic
Isotropy	±1 dB	±1 dB	±1 dB

GENERAL CHARACTERISTICS	
Recommended calibration interval	24 months
Operating temperature	0°C ÷ 50°C
Size	365 x 120 Ø □(mm)
Weight	300 g
Country of origin	Italy

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