



33P TRIPLE PROBE

Electric, Magnetic and Magnetostatic Field

Main Features:

33P (Electric Probe): E field

- Frequency Range: 1 Hz ÷ 400 kHz
- Dynamic: > 86 dB
- Directivity: Isotropic

33P (Magnetic Probe): B field

- Frequency Range: 1 Hz ÷ 400 kHz
- Dynamic: > 94 dB
- Directivity: Isotropic

33P (Magnetostatic Probe): B_{DC} field

- Frequency Range: DC
- Dynamic: > 70 dB
- Directivity: Isotropic

Compatibility:

- NHT3D Meter

Main applications:

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



Information subject to change without prior notice

MICRO RAD

Piazza delle Azalee, 13/14 05018 – Orvieto (TR) - Italy
Tel. +39 0763 393291 / Fax. +39 0763 394423 info@microrad.it - www.microrad.it



33P TRIPLE PROBE

Electric, Magnetic and Magnetostatic Field

Description:

The Microrad 33P 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 NHT3D instrument 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 ÷ 400 kHz	1 Hz ÷ 400 kHz	DC
Response type	Flat	Flat	-
Frequency response	±1dB (10Hz÷400kHz) @ 200V/m	±1 dB (10Hz÷400KHz) @ 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

Information subject to change without prior notice



Piazza delle Azalee, 13/14 05018 – Orvieto (TR) - Italy
 Tel. +39 0763 393291 /Fax. +39 0763 394423 info@microrad.it - www.microrad.it