





20H PROBE

Magnetic Field Probe: B Field, DC ÷ 1000 Hz

Key Features:

- Frequency range: DC ÷ 1000 Hz
- Dynamic Range: >80 dB
- Directivity: Isotropic
- Sensitivity > 1mT
- High pass filter



Compatibility:

- NHT3DL and NHT310F meters

Typical Application:

- MRI - Magnetic Resonance Imaging
- Galvanic treatments
- Railway power supply plants
- Metalworking processes

Information subject to change without prior notice

MICRORAD

Piazza delle Azalee, 13/1405018 – Orvieto (TR) - Italy
Tel. +39 0763 393291 /Fax. +39 0763 394423 info@microrad.it - www.microrad.it



20H PROBE

Magnetic Field Probe: B Field, DC ÷ 1000 Hz

Description:

The 20H probe is based on a set of three mutually orthogonal Hall sensors.The three voltages, which correspond to the spatial components of the field, are available individually at the probe output. The NHT310F or NHT3DL meter calculates the resulting isotropic field strength.

The probe detects magnetic fields from 0 to 1000 Hz. It is suitable for use in applications such as Magnetic Resonances Imaging (MRI), materials working plants (galvanic and mills) and power supply plants for railway stations.

Its high rate of 15 T makes it ideal for extremely strong magnetic field measurements such as those used for example in the latest generation or experimental magnetic resonance.

The presence of a first-order high-pass filter (20 dB / decade) with a 1.5Hz cutting frequency allows to discriminate the static component from the others at higher frequencies. In fact, the filter, when inserted, completely suppresses the continuous component and the probe band becomes 1.5 Hz ÷ 1000 Hz.

TECHNICAL SPECIFICATIONS	
Frequency range	0 ÷ 1000 Hz
Type of frequency response	Flat
Measurement range	1mT ÷ 15T
Sensor type	Hall sensors
Directivity	Isotropic
Frequency response	± 0.5 dB (0 Hz ÷1 kHz)
Linearity	± 0.5 dB (5 ÷ 2000 mT)
	± 1 dB (2 ÷ 15 T)
Isotropic response (@ 10mT)	± 0.5 dB (@ 10mT)

GENERAL CHARACTERISTICS	
Recommended calibration interval	24 months
Operation temperature	-10°C ÷ 50°C
Size	300 x 16 Ø (mm)
Weight	63 g
Country of origin	Italy

Information subject to change without prior notice

MICRORAD

Piazza delle Azalee, 13/1405018 – Orvieto (TR) - Italy
Tel. +39 0763 393291 /Fax. +39 0763 394423 info@microrad.it - www.microrad.it