



# 30H PROBE

Magnetic Field Probe: B Field, DC ÷ 1000 Hz

## **Key Features:**

- Frequency range: DC ÷ 1000 Hz
- Dynamic Range: 70 dB
- Directivity: Isotropic
- Sensitivity > 200  $\mu$ T
- High pass filter (cut-off @ 1.5Hz).

## **Compatibility:**

- NHT310 and NHT3D meters

## **Typical Application:**

- Locations where there are patients with pacemakers
- MRI - Magnetic Resonance Imaging
- Galvanic treatments
- Railway Power Supply Plants
- Metalworking processes



Information subject to change without prior notice

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Distributed by:  
Reliant EMC LLC  
3311 Lewis Ave  
Signal Hill CA 90755  
408-916-5750  
[www.reliantemc.com](http://www.reliantemc.com)



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## Magnetic Field Probe: B Field, DC ÷ 1000 Hz

**Description:**

The 30H 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 NHT 310 or NHT 3D 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.

The high sensitivity of this probe makes it ideal for exposure measurements in sensitive environments, such as places where people using pacemakers are present.

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.

<b>TECHNICAL SPECIFICATIONS</b>	
Frequency range	0 ÷ 1000 Hz
Type of frequency response	Flat
Measurement range	200 µT ÷ 600 mT
Dynamic range	70 dB
Sensor type	Hall sensors
Directivity	Isotropic
Frequency response	± 0.5 dB (0 Hz ÷ 1 kHz)
Linearity	± 0.7 dB (5 ÷ 550 mT)
Isotropic response	± 0.5 dB (@ 10 mT)

<b>GENERAL CHARACTERISTICS</b>	
Recommended calibration interval	24 months
Operating temperature	0°C ÷ 50°C
Size	300 x 16 Ø (mm)
Weight	63 g
Country of origin	Italy

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