

MODEL NUMBER:  
**MFP50M**

## Isotropic Magnetic Field Probe 500 KHz -50 MHz, 0.05 - 20 A/m

State of the art MFP50M Isotropic Magnetic Field Probe is used for monitoring field strengths while performing magnetic immunity tests per IEC 61000-4-8, IEC 61000-4-9 or IEC 61000-4-10 or can be used in the field to evaluate exposure. The MFP50M Isotropic Magnetic Field Probe can also be used to calibrate magnetic field generators used in compliance testing.

The MFP50M Probe covers the frequencies of major industrial, broadcast and telecommunication sources, has flat response in the pass band 2-50 MHz and usable response to 500 KHz (with correction factors), eliminating the typical need for two probes (active and passive). MFP50M probe is very compact, rugged and offers good magnetic field overload capability and pick up suppression of the out-of-band electric and magnetic fields.

### MAIN PARAMETERS\*

Sensor:	3-Axial diode based isotropic sensor with orthogonal broadband loops
High sensitivity:	0.05 A/m
Linearity:	+/- 0.5 dB
Dynamic range:	>50 dB (single range)
Withstands continuous magnetic field:	30 A/m
Frequency response (referred to 27.1 MHz):	2 MHz-50 MHz (+0/- 1 dB)
Frequency response (with correction factors):	500 KHz-50 MHz (+/- 1 dB)
Rotational isotropicity:	+/- 0.6 dB
Calibration accuracy (at specified freq.)	<0.5 dB
E field suppression:	15 dB (at 13.56 MHz)
Temperature:	5-40 °C
Humidity:	RH 10-90%, non-condensing
Temperature error:	<0.05 dB/°C (field > 0.1 A/m)
UK NPL or NIST traceable calibration	
Small size (LxD):	9.0x2.25 inch, 230x58 mm
Weight:	0.2 lb, 100 g
Operates with RFM-05 meter	
Designed and made in the <b>USA</b>	

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

