

HI-6005 Electric Field Probe

New Technology Solving EMF Problems

The new **HI-6005 Electric Field Probe** embodies the latest innovations in isotropic sensor design and low noise, miniaturized electronics.

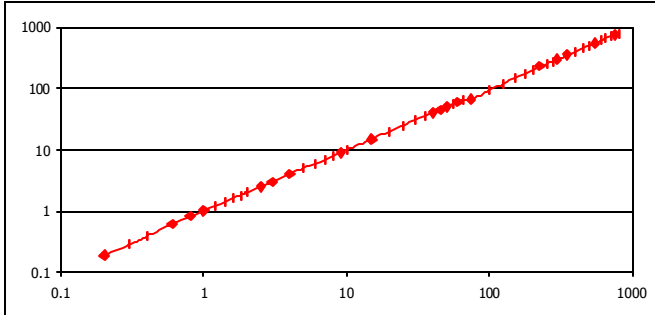
The HI-6005 is a fully intelligent sensor enabling fast and accurate EMF measurements with industry-leading performance specifications. Optical coupling to a variety of readout options makes this new probe ideally suited for a wide range of field monitoring applications.



Specifications

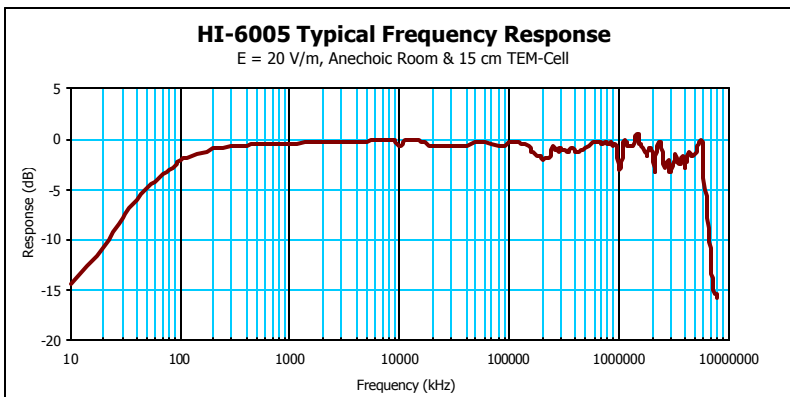
Sensor Type	Electric Field
Detection	Isotropic (X, Y and Z Axis Readings)
Dynamic Range	0.5 – 800 V/m (>64 dB, Single Range)
Resolution	0.01 V/m
Readout Units	V/m, V ² /m ² , mW/cm ²
Frequency Response	100 kHz – 6 GHz
Accuracy	± 1 dB from 26 MHz – 2 GHz ± 0.5 dB at Calibration Frequencies
Isotropic Deviation	± 0.5 dB
Linearity	± 0.5 dB
Probe Response Time	5 μsec (typical)
Overload Withstand	>1500 V/m Continuous Field
Physical Interface	Duplex Optical Fiber (200 micron multimode) FSMA Connectors
Operating Range	10°C to 40°C 5% to 95% Relative Humidity, Non-Condensing
Operating Time	10 Hours Continuous Use
Battery	Rechargeable NiMH
Battery Charger	100-240 VAC Universal Input 2 Hour Charge Time from Fully-Depleted Battery
Dimensions	32mm x 32mm x 32mm Cubical Housing 43mm Sensor Protection Caps
Mounting	¼-20 UNC Internal Thread
Weight	80g

HI-6005 Typical Performance Data



Linearity

Actual Data taken at 100MHz
Probe remains linear to 0.2V/m



Frequency Response

Anechoic Room and TEM Cell Setups
Field Level 20V/m



Isotropic Deviation

Actual Data taken at 400MHz
Field Level 20V/m
Maximum Variation 0.54dB