

# ELECTRIC FIELD PROBES MODEL HI-6006



## MODEL HI-6006

- **Frequency Response:**  
100 kHz to 6 GHz
- **Dynamic Range:** 0.5 to 800 V/m
- **Provides Individual and Summed Axis Values**
- **A2LA Accredited Calibration Report**
- **Suitable for MIL Standard Specs:**
- **MIL-STD 461F Radiated Susceptibility (RS)**
- **Suitable for Automotive Specs<sup>1</sup>:**
- **SAE J1113/27**
- **GMW 3091/3097/3103**
- **FORD FMC 1278**
- **Suitable for Commercial Specs:**
- **EN/IEC61000-4-3 Radiated Immunity**
- **<sup>1</sup> For High Field and High Frequency Requirements, the HI-6053 is Recommended**

**ETS-Lindgren's Model HI-6006 Electric Field Probe** is a fully intelligent sensor enabling fast and accurate EMF measurements with industry-leading performance specifications. Optical coupling to a variety of readout options make this probe ideally suited for a wide range of field monitoring applications.

Designed to be single range reading, the HI-6006 RF field probe can read data continuously over the entire dynamic range. Data values for each axis (X,Y, and Z) can be read individually or summed.

A unique feature of the HI-6006 is the field-replaceable battery. This battery allows the user to replace the battery when necessary without requiring addition to its capability as a system level platform.

For direct connection to a PC, either the HI-4413P Serial or the HI-4413USB interfaces are available.

## Product Options

- Optical Modem for Connection to PC Serial Port (HI-4413P)
- Optical Modem for Connection to PC USB Port (HI-4413USB)
- EMCenter Interface Card (125446)
- Optical Cable Extensions to 50 m (H-491106-xx)
- Probe Stand Assembly (H-491269)
- Extra Probe Carriers for Above Probe Stand (H-491276)

## Technical Specifications

Electrical	
Detection	Isotropic (X,Y,and Z Axis Readings)
Frequency Range	100 kHz to 6 GHz
Frequency Response (Typical)	500 kHz to 2 GHz +1.0, -2.5 dB
	2 to 5.5 GHz +3.5, -4.5 dB
	5.5 to 6 GHz + 2.0, -6.0 dB
Frequency Response with Correction	100 kHz to 6 GHz ± 0.9 dB
Dynamic Range	0.5 to 800 V/m (Single Range)
Resolution	0.01 V/m
Isotropic Deviation	0.5 dB @ 400 MHz
Linearity	0.5 dB (1 to 800 V/m)
Sample Rate (Typical)	70 Samples/Second Maximum
Overload Withstand	>1500 V/m CW
Physical	
Physical Interface	Duplex Optical Fiber (200 Micron Multimode); FSMA Connectors Integral 1m Optical Cable
Battery	4.8 V NiMH, up to 8 Hours of Operation
Battery Charger	100–240 VAC Universal Input; 3-Hour Charge from Full Depletion
Cubical Housing Height	32 mm (1.26 in)
Sensor Protection Caps Height	43 mm (1.69 in)
Weight	80 g (2.82 oz)
Mounting	1/4" 20 – UNC Internal Thread