## ELECTRIC FIELD PROBES HI-6006 Electric Field Probe with Field-Replaceable Battery

#### ETS-Lindgren's HI-6006 Electric Field Probe has a Frequency Response of 100 kHz to 6 GHz.



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 makes 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 additional calibration. Simple in-field synchronization of the HI-6006 is all that is required for proper battery level monitoring.

The HI-6100 Field Monitor provides manual functions and programmed control via IEEE-488 and RS-232 Serial Data Interfaces. Readings from up to four field probes can be displayed simultaneously.

The EMCenter<sup>™</sup> Modular RF Platform along with the EMSense<sup>™</sup> interface card can be used with the HI-6000 series field probes as a field monitor in 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.

# **Key Features**

- 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

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#### **Electrical Specifications**

**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 Specifications**

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

#### **Other Specifications**

- HI-6006 Probe
- A2LA Traceable Calibration Report
- Carrying Case
- Bulkhead Connector (2)
- Fast Battery Charger/Battery Synchronizer
- 10 m Optical Cable
- Spare Screws for Battery Hatch
- Manual



### **Product Charts**



