

# 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 EMCenter™ Modular RF Platform along with the EMSense™ 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

## Specifications

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**ETS-LINDGREN**  
An ESCO Technologies Company

## Electrical Specifications

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**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  $\pm$  0.9 dB

**Dynamic Range:** 0.5 to 800 V/m (Single Range)

**Resolution:** 0.01 V/m

**Isotropic Deviation:**  $\pm$  0.5 dB @ 400 MHz

**Linearity:**  $\pm$  0.5 dB (1 to 800 V/m)

**Sample Rate (Typical):** 70 Samples/Second Maximum

**Overload Withstand:** >1500 V/m CW

## Physical Specifications

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**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

## Additional Specifications

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- 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

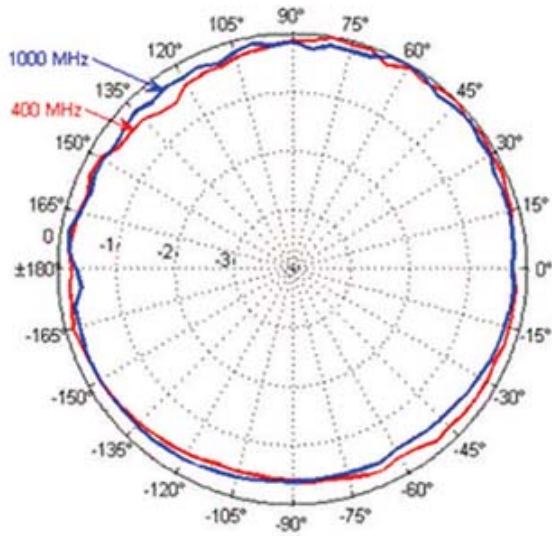
## Product Options

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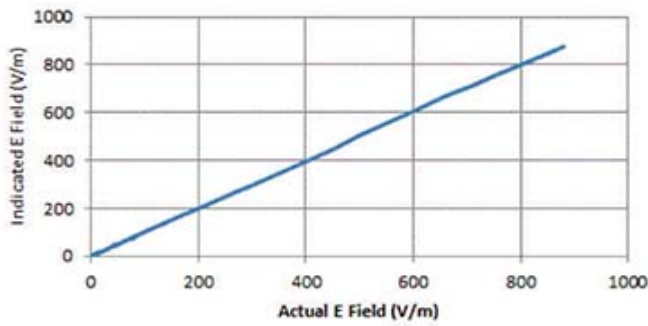
- Optical Modem for Connection to PC Serial Port (HI-4413P)
- Optical Modem for Connection to PC USB Port (HI-4413USB)
- EMCenter Interface Card (125446)
- HI-6100 Field Monitor Interface Card (H-491277)
- Optical Cable Extensions to 50 m (H-491106-xx)
- Probe Stand Assembly (H-491269)
- Extra Probe Carriers for Above Probe Stand (H-491276)

Product Charts

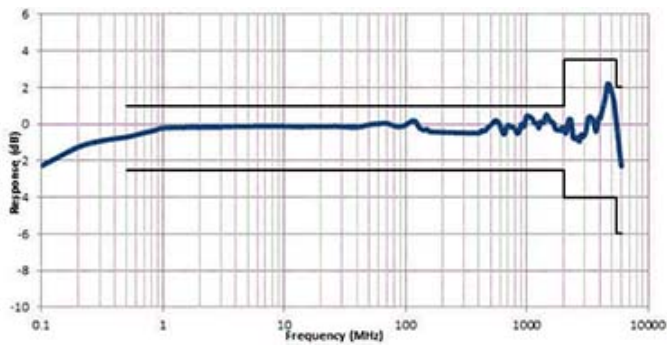
**Isotropic Deviation**  
**Actual Data Taken at**  
**400 MHz**  
**Field Level 20 V/m**  
**Maximum Variation**  
**0.54 dB**



**Linearity Response**  
**at 27 MHz**



**Frequency Response**  
**Anechoic Room and**  
**TEM Cell Setups -**  
**Field Level 20 V/m**



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