

## PROBES & MONITORS HI-6023 ELECTRIC FIELD PROBE



**ETS-Lindgren's HI-6023 Electric Field Probe with Field Replaceable Battery** 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-6023 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-6023 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-6023 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.

### HI-6023 ELECTRIC FIELD PROBE

- Frequency Response: 10 kHz to 1 GHz
- Dynamic Range: 2.0 to 800 V/m
- Provides Individual and Summed Axis Values
- User Replaceable/Rechargeable Batteries
- 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
- Suitable for Commercial Specs
  - EN/IEC61000-4-3 Radiated Immunity
- HI-4413P Fiber to Serial Converter (Option)
- HI-4413USB Fiber to USB Converter (Option)
- H-491269 Probe Stand Assembly (Option)

<sup>1</sup> For High Field and High Frequency Requirements, the HI-6053 is Recommended

### Standard Configuration

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

### 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)

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### Technical Specifications

Electrical	
Detection	Isotropic (X, Y and Z Axis Readings)
Frequency Range	10 kHz to 1 GHz
Frequency Response (Typical)	10 kHz to 30 kHz +0.5, -2.5 dB 30 kHz to 1 GHz +/-1.0 dB
Frequency Response with Correction	10 kHz to 1 GHz +/-0.9 dB
Dynamic Range	2.0 to 800 V/m (Single Range)
Resolution	0.01 V/m
Isotropic Deviation	0.5 dB @ 400 MHz
Linearity	0.5 dB (2 to 800 V/m)
Sample Rate (Typical)	70 Samples/Second Maximum
Overload Withstand	>1500 V/m CW
Battery	4.8 V NiMH, up to 8 Hours of operation
Battery Charger	100-240 VAC Universal Input; 3-Hour Charge from Full Depletion
Physical	
Physical Interface	Duplex Optical Fiber (200 Micron Multimode); FSMA Connectors. Integral 1m Optical Cable
Cubical Housing Height	32 mm (1.26 in)
Sensor Protection Caps Height	32 mm (1.26 in)
Weight	80 g (2.82 oz)
Mounting	1/4" 20 - UNC Internal Thread