EMC PROBES ELECTRIC FIELD PROBE WITH FIELD-REPLACEABLE BATTERY



MODEL HI-6006

- 100 kHz to 6 GHz Frequency Response
- 0.5 to 800 V/m Dynamic Range
- Provides Individual and Summed Axis Values
- Field-replaceable Battery
- A2LA Accredited Calibration Report
- Suitable for MIL Standard Spec: — MIL-STD-461F Radiated
- Susceptibility (RS)
- Suitable for Automotive Specs¹:
- SAE J1113/27
- FUND FING 1270
- Suitable for Commercial Spec:
 EN/IEC 61000-4-3
 Radiated Immunity
- Operates with Most 3rd-party Immunity Software

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 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

Standard Configuration

- 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

Options

allows the user to replace the battery

additional calibration. Simple in-field

synchronization of the HI-6006 is all

The HI-6100 Field Monitor provides manual functions and programmed

control via IEEE-488 and RS-232 Serial

probes can be displayed simultaneously.

For direct connection to a PC either the HI-4413P Serial or the HI-4413USB

interfaces are available.

Data Interfaces. Readings from up to four

that is required for proper battery level

when necessary, without requiring

monitoring.

- Optical Modem for Connection to PC Serial Port (HI-4413P)
- Optical Modem for Connection to PC USB Port (HI-4413USB)
- 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)

Technical Specifications

Applications

MIL-STD-461F (RS)

GMW3091/3097/3103

SAE J1113/27

■ FORD FMC 1278

EN/IEC 61000-4-3

Electrical	
Detection	Isotropic (X, Y, and Z Axis Readings)
Frequency Range	100 kHz to 6 GHz
Frequency Response	100 kHz to 2 GHz +1.0, -3.5 dB
	2 GHz to 5.5 GHz +3.5, -4.0 dB
	5.5 GHz to 6 GHz +2.0, -6.5 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

¹ For High Field Requirements, the HI-6053 is Recommended



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Technical Specifications

Physical	
Physical Interface	Duplex Optical Fiber (200 Micron Multi-mode)
	FSMA Connectors. Integral 1 m Optical Cable
Operating Temperature Range	10° to 40° C, 5 to 95% Relative Humidity Non-condensing
	50° to 104° F, 5 to 95% Relative Humidity Non-condensing
Battery	Rechargeable NiMH
Battery Life	Up to 8 Hours
Battery Charger	100 to 240 AC Universal Input
	3-hour Charge from Full Depletion
Sensor Protection Caps Height	40 mm
	1.6 in
Height	32 mm
	1.25 in
Width	32 mm
	1.25 in
Depth	32 mm
	1.25 in
Weight	80 g
	2.82 oz
Mount	1/4" 20 UNC Internal Thread





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