

Smart Fieldmeter® System for Industrial Use



EMF/RF Broadband Safety Tester 
Digital Smart Fieldmeter® Industrial E & H System
LBA SKU: DIGPEH-3000*

High quality, affordable digital industrial RF Safety Survey system!

The digital meter is easy to read and to operate, with an outstanding feature set. It includes two electromagnetic field probes that cover the frequencies most often encountered in industrial, scientific, and medical workplaces. An electric field probe enables coverage of 0.2 to 3000 MHz. A magnetic field probe covers 0.5 to 50 MHz. The DIGPEH-3000 system enables compliance of workplace RF devices with OSHA, FCC, Canadian Code 6, and other safety standards.

The DIGPEH-3000 system is designed to conveniently measure E and H field RF levels around RF welders, lasers, heat sealers, semiconductor processing equipment, ultraviolet generators, AM and shortwave broadcast systems, RFID systems, electro surgery sets, MRI machines, SCADA, IoT, WLAN and many more devices. With the supplied NIST-traceable calibration, this system supports laboratory testing of RF device safety in compliance with present EMC and RF safety standards.

The system includes a port and extension cable for remote metering or data logging. An extension probe cable and desk tripod is included for measurement flexibility, and the system can also mount to

standard tripods for fixed monitoring. The 55 hour rechargeable battery life facilitates unattended monitoring.

WHAT YOU GET:

- 1 ea RFP-05M Digital Smart Fieldmeter®
- 1 ea PI-H1 Probe, magnetic field, 0.5 – 50 MHz
- 1 ea PI-01 Probe, electric field, 0.2 – 3000 MHz
- 1 ea Stand, non-metallic portable
- 1 ea Mounting clip, probe
- 1 ea Cable, probe coaxial 39" (1.0m)
- 1 ea Field Gauge® probe performance verifier
- 1 ea Power supply, wall, Universal (100V-240V)
- 1 ea Manual, User
- 2 ea Certificates, probe calibration
- 1 ea Carrying case, hard side, compartmented
- 1 ea One year warranty



SPECIFICATIONS

Isotropic Broadband Electric Field Probe - EMCTD PI-01 200 KHz- 3 GHz, 0.2 - 600 V/m

Classic design probe PI-01, meets the requirements of present EMC and RF safety standards. It allows measurements of RF fields produced by most of the broadcast, telecommunication and industrial sources. High sensitivity and stability of the parameters ensures a long term field life.

Main Parameters:

- Diode based: 3-Axial isotropic sensor.
- High sensitivity: 0.2 V/m.
- Linearity: +/- 0.5 dB (1-400 V/m), +/- 1 dB (400-600 V/m).
- Dynamic range: >70 dB (single range).
- Frequency response (without correction factors):
 - +/- 1 dB (2 MHz–2 GHz), –3 dB @ 3 GHz, –3 dB @ 200 KHz
- Frequency response (with correction factors): 200 KHz-1 GHz (+/1 dB), 1- 3 GHz (+/- 1.5 dB).
- Rotational isotropicity: <1dB.
- UK NPL or NIST traceable calibration.
- Small size: LxD: 9.0x2.25 inch, 230x58 mm.
- Weight: 0.2 lb, 100 g.
- Operates with both RFP-04 and RFP-05M meters.
- Designed and made in the USA.

SPECIFICATIONS

Isotropic Broadband Magnetic Field Probe EMCTD PI-H1: 500 KHz -50 MHz, 0.05 - 20 A/m

State of the art probe PI-H1 is used for assessment of the limits for maximum permissible exposure of occupational and general population to RF magnetic fields. Probe covers the frequencies of major industrial, broadcast and telecommunication sources, has flat response in the pass band 2-50 MHz and usable response to 500 KHz (with correction factors), eliminating the typical need for two probes. PI-H1 probe is very compact, rugged and offers good magnetic field overload capability and pick up suppression of the out-of-band electric and magnetic fields.

Main Parameters*

- Sensor: 3-Axial diode based isotropic sensor with orthogonal broadband loops.
- High sensitivity: 0.05 A/m.
- Linearity: +/- 0.5 dB.
- Dynamic range: >50 dB (single range).
- Withstands continuous magnetic field 30 A/m.
- Frequency response (referred to 27.1 MHz): 2 MHz-50 MHz (+0/- 1 dB),
- Frequency response (with correction factors): 500 KHz-50 MHz (+/- 1 dB).
- Rotational isotropicity: <1dB.
- Calibration accuracy (at specified freq.) 0.1 A/m).
- UK NPL or NIST traceable calibration.
- Small size: LxD: 9.0x2.25 inch, 230x58 mm.
- Weight: 0.2 lb, 100 g.
- Operates with RFP-05M meter.
- Designed and made in the USA.

SPECIFICATION FOR SMART FIELDMETER® DIGITAL MODEL RFP-05M

Description	Smart Fieldmeter® Digital. Model RFP-05M Advanced design meter measuring the composite isotropic RF field strength. Multi-probe unit with built-in recording capabilities.
Benefits	Meter supports up to four different probes and stores the results on the removable memory card. Has auto ranging, auto zeroing, and alarm and performs time and spatial averaging. Fully adjustable data logging with time and GPS position stamp. Bidirectional link to a PC with wired optically decoupled or fiber optic connection. Flexible and upgradeable architecture
Field Range	0.2 V/m-800 V/m
Calibration	United Kingdom NPL traceable
Warranty	1 Year, parts and labor.
Made by	EMC Test Design, LLC USA

** Specifications subject to change without notice, designated features optional.*

Contact LBA for Quotes and Orders!

Click here for LBA's Full Product Line of EMCTD RF Safety Survey Systems



3400 Tupper Drive | Greenville, NC 27834 | 252-757-0279
lbagrp@lbagroup.com | www.lbagroup.com



3400 Tupper Drive | Greenville, NC 27834 | 252-757-0279
lbagrp@lbagroup.com | www.lbagroup.com