

## Smart Fieldmeter® System For Communications Use



**EMF/RF Broadband MPE Safety Tester**   
**Digital Smart Fieldmeter® Communications System**  
LBA SKU: DIGMPE-8000 (F or I)\*

### **High quality, modestly priced FCC/OSHA Compliant RF survey system!**

The EMCTD digital Smart Fieldmeter® is easy to read and to operate, with an outstanding feature set. The broadband shaped response EMCTD electromagnetic probe covers the 0.1 to 8000 MHz spectrum where most common cellular, microwave land mobile communications, medical industrial and government RF emitters are found. The DIGPE-8000 system allows the direct measurement of maximum permitted general and occupation exposure levels, even in multi-emitter environments.

The system is designed to conveniently measure the presence of RF fields in terms of compliance with non-ionizing radiation regulatory standards. This system may be ordered with probe response shaping for either FCC or ICNRP standards. The DIGPE-8000 systems can quantify exposures in percent of permitted. Use this around cellular towers and rooftop antennas; AM, FM, and TV antennas; Wi-Fi, DAS and small cell access points; RFID systems; industrial and medical equipment; and much more. With the supplied UK-NPL/NIST-traceable calibration, this system also supports laboratory testing of RF devices in compliance with present EMC and RF safety standards.

The system includes extension ports for remote metering, data logging, and fiberoptic isolation options. A desk tripod is included for measurement flexibility, and the system can also mount to standard tripods for fixed monitoring. The rechargeable 55 hour battery or external power facilitates unattended monitoring. Internal data logging, removable memory card, alarm, time and spatial averaging, auto-zero and auto-ranging functions ensure maximum measurement flexibility.

### WHAT YOU GET:

- 1 ea RFP-05M Digital Smart Fieldmeter®
- 1 ea PI-SH Probe, shaped field, 0.1 – 8000 MHz (specify FCC or ICNRP)
- 1 ea Stand, non-metallic portable
- 1 ea Mounting clip, probe
- 1 ea Cable, probe coaxial 39" (1.0m)
- 1 ea Power supply, wall, US
- 1 ea Manual, User
- 1 ea Certificate, probe calibration
- 1 ea Carrying case, hard side, compartmented
- 1 ea One year warranty




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### SPECIFICATIONS

#### Isotropic Broadband Electric Field Probe - EMCTD PI-SH (FCC or ICNRP)

#### 100 KHz - 8 GHz 0.5-100% of STD Power Density

PI-SH (ICNRP or FCC) is an isotropic electric field probe with shaped frequency response meeting the ICNRP or FCC RF safety standards for occupational and general public exposure limits (see the specified frequency ranges below). Meter readings are shown in % of the STD - standard reference level, eliminating the need to know the source frequency. Probe output is proportional to RF power density in the whole specified power range, producing the correct RF power measurements in single and multi-signal environments, typically present at multiple antenna sites.

#### Main System Parameters:

- Probe variants: PI-SH-ICNRP and PI-SH-FCC
- Frequency range: 100KHz-8 GHz (Occupational exposure)  
10 MHz-8 GHz (General public: ICNRP)  
3 MHz-8 GHz (General population: FCC)
- Diode based: 3-Axial isotropic sensor, composite output.
- Power density range: 0.5-1000% of STD.
- Probe power nonlinearity: Less than 3 dB (0.5-1000%).
- Readout power nonlinearity: Less than 1 dB (0.5-1000%).
- Rotational isotropicity: +/-1dB (0.1 MHz-1GHz), +/-3dB(1-8GHz)
- Probe frequency response: Per STD, deviation - less than 3 dB (documented).
- Calibration accuracy: 1 dB (@100 MHz).

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3400 Tupper Dr. | Greenville, NC 27834 | 252-757-0279 | [www.lbagroup.com](http://www.lbagroup.com)

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[lbagr@lbagroup.com](mailto:lbagr@lbagroup.com)

- Temperature: 0-50°C,
- Humidity: RH 10-90%, non-condensing.
- Temperature error: <0.05 dB/C
- Calibration: UK NPL (UK National Physics Lab) traceable
- Small size: LxD: 9.0x2.25 inch, 230x58 mm
- Weight: 0.2lb, 100g.
- Supporting equipment: RFP-05M meter.
- Country of origin: Designed and made in the USA.

## SPECIFICATION FOR SMART FIELDMETER® DIGITAL MODEL RFP-05M

<b>Description</b>	<b>Smart Fieldmeter® Digital. Model RFP-05M</b> - Advanced design meter measuring the composite isotropic RF field strength. Multi-probe unit with built-in recording capabilities.
<b>Benefits</b>	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
<b>Field Range</b>	0.1-2000% STD
<b>Calibration</b>	United Kingdom NPL traceable
<b>Warranty</b>	1 Year, parts and labor.
<b>Made by</b>	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**



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