



Specification

Meter RFP-04CE, Probe- PI-01V-900/1900 MHz

- Portable EM field meter (E-Field) with detachable isotropic probe.
- Wide dynamic range: 0.2 - 400 V/m.
- Resolution (at range): 0.01 V/m (2 V/m and 20 V/m), 0.1 V/m (200 V/m), 1 V/m (600 V/m).
- Selective frequency range: 900-1900 MHz.
- Calibration frequency ranges: 925-960 MHz and 1805-1880 MHz.
- Probe directivity: Omni directional (Isotropic probe).
- Ranges (V/m, full scale): 2, 20, 200, 600.
- Calibration accuracy: +/- 0.5 dB (at reference levels).
- Linearity deviation: +/- 1.5 dB (any range 10-150% of full scale). Typically +/- 1 dB.
- In band response flatness: +/- 1 dB (**925-960 MHz**), +/- 1 dB (**1805-1880 MHz**),
- Off band attenuation: 3 dB @ 880 MHz, >10 dB @ F<750 MHz, 3 dB @ 1950 MHz, >10 dB @ F>2050 MHz.
- Probe rotational isotropicity: +/- 0.6 dB.
- Operating modes: Average, Pulse and Peak.
- Reading: RMS (root mean square) in all modes:
 - Average: RMS (Averaged over T_{av}).
 - Pulse: 0.707 x Instant Value (Averaged over T_p).
 - Peak: 0.707 x Peak Value (Averaged over T_s).
- Response times for different operating modes:
 - Average (Slow Response): T_{av} (averaging slow time)=2 sec.
 - Pulse (Fast Response): T_p (averaging fast time)=100 ms.
 - Peak (Peak Response): T_s (sample time)=50 ms, T_h(hold time)=14 sec.
- Auto zeroing (automatic and/or user activated) operates even at strong EM fields, and eliminates temperature induced offset errors.
- Display: LCD 3.5 Digits, with over-range feature.
- Remote monitor: Special 1.8 m (6 ft.) cable (supplied with unit) allows remote output monitoring by data logger, scope or voltmeter.
- PC data streaming allows fast data transfer (120 samples/sec.) through AC/RF decoupled DAQ box to serial RS232 port.
- Data logging allows the use of portable battery operated data loggers for data storage and PC transfer at a later time.
- Design: rugged metal hand held enclosure. Probe is mounted on nonmetal handle and can be removed for cable operation at a distance.
- Standard tripod mount (1/4"-20) for meter, probe clip and nonmetal portable tripod are provided.



- Operating temperature: 5 C° to 40° C, RH 10%-90%, non-condensing.
- Temperature error: <0.08 dB/°C (range 2 V/m), <0.05 dB/°C (other ranges).
- Dimensions: Meter (hxwxd) 130x80x30 mm., 5x3.125x1.25 inch, Probe (LxD) 230x58 mm, 9.0x2.25 inch.
- Weight: Meter 225 g., 0.5 lb; Probe 100 g., 0.2 lb.
- Battery life: 100 hr. with user replaceable 9V battery (included). Low battery indicator.
- Calibration: Every unit is individually calibrated for absolute test levels and linearity at specified frequencies. NIST traceable Calibration certificate is supplied with each unit.
- Accessories: **Smart Fieldmeter**® comes in a hard carrying case and includes the RFP-04CE Meter with installed battery, PI-01V Isotropic Probe together with probe cable, remote monitor cable, tripod, probe clip and product documentation.

**Probe PI-01V-900/1900
Typical Frequency Response**

