

## Smart Fieldmeter™ Specification

- Portable EM field monitor with detachable isotropic probe.
- Wide dynamic range: 0.2 - 600 V/m.
- Broad frequency range: 0.2 MHz-3000 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 10-100% of full scale).
- Probe frequency response: +/- 2.5 dB (0.5 MHz–3GHz), -3 dB @ 0.2MHz.
- Probe isotropicity: +/- 1.5 dB (100, 500, and 2500 MHz).
- Operating modes: Average, Pulse and Peak.
- Reading: RMS (root mean square) normalized 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:  $T_{av}$  (averaging time)=2 s.
  - Pulse:  $T_p$  (rise/fall time)=100 ms.
  - Peak:  $T_s$  (sample time) =100 ms,  $T_h$  (hold time)=4 s.
- 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.
- Design: rugged dust-proof and splash proof 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: 0 C° to 40° C.
- 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-04 Meter with installed battery, PI-01 Isotropic Probe together with probe cable, remote monitor cable, tripod, probe clip and product documentation.