

Application Guide For Smart Fieldmeter®, Smart Fieldmeter® Digital And Omnifield Antenna®

| | Smart Fieldmeter® Digital. Models RFP-05, RFP-05M | Smart Fieldmeter® Model RFP-04 | Omnifield Antenna® Models OFA-S, OFA-SE |
|---------------------|---|---|--|
| Look |  |  |  |
| Description | Isotropic 3-axis probe with advanced design meter measuring the RF field strength. Multi-probe unit with built-in recording capabilities. | Isotropic 3-axis probe with meter measuring the RF field strength. Single probe unit with simplest user interface. | Unique Isotropic 3-axis antenna, producing the RF signal proportional to the RF field strength. |
| Applications | <ul style="list-style-type: none"> - EMC testing for CE, MIL and industrial EMC qualification. - RF field strength monitoring for health, safety and industrial or military environmental control. - RF compliance testing of active transmitters: TV, Cell, Radio and other industrial sources. - RF monitoring of MW ovens and other industrial power RF applications. - Scientific and medical research of biological effects of electromagnetic radiation and electrosmog. | <ul style="list-style-type: none"> - EMC testing for CE, MIL and industrial EMC qualification. - RF field strength monitoring for health, safety and industrial or military environmental control. - RF compliance testing of active transmitters: TV, Cell, Radio and other industrial sources. - RF monitoring of MW ovens and other industrial power RF applications. - Scientific and medical research of biological effects of electromagnetic radiation and electrosmog. | <ul style="list-style-type: none"> - Selective measurement of RF signals when spectral analysis of the field is important. - RF field strength monitoring for health, RF safety and industrial or military environmental control. - Scientific and medical research of biological effects of electromagnetic radiation and electrosmog. |

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| Benefits | <p>The versatile EMC test lab in your hand. Meter supports up to four different probes and stores the results on the removable memory card. Have 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.</p> | <p>Simple professional field strength meter for field and lab use. Measures the RF field strength with one dedicated probe. Uses decoupled wired or fiber optic link to a PC. Peak, Pulse and Average modes. Semiautomatic auto zeroing. Classic time proven design.</p> | <p>The unique isotropic small size RF antenna operating with any spectrum analyzer of your choice. Output RF signal is proportional to the RF field amplitude. Measure the field strength and the frequency of the RF transmitters.</p> |
| Frequency Response | <p>Specified by the probe type. Supports all electric field probes (10 KHz-18 GHz), magnetic field probe (500 KHz-50 MHz) and electric pulsed field probe (100 MHz-18 GHz). Deviations are specified by frequency correction factors.</p> | <p>Specified by the probe type. Supports one electric field probe (10 KHz -18 GHz). Deviations are specified by frequency correction factors.</p> | <p>Specified by the antenna factors in the frequency range 30 MHz-3 GHz.</p> |
| Field Range | 0.2 V/m-800 V/m | 0.2 V/m-800 V/m | 10 mV/m-200 V/m (OFA-S). 1 mV/m-20 V/m (OFA-SE) |
| Additional Equipment | <p>Not required for normal operation. Field Gauge® is included. ODLK PC link kit and FOLK-01 fiber optic link kit (for RFP-05), IM Insulated Modem and FOLK-02 (for RFP-05M), and GPS-R receivers are provided as an option.</p> | <p>Not required for normal operation. Field Gauge® is included. PCLK-01 PC link kit, FOLK-01 fiber optic link kit and data loggers for data storage are provided as an option.</p> | <p>SA USB Spectrum Analyzer in SFA-S kit. Any standard spectrum analyzer. Portable one is the best choice for field applications.</p> |
| Calibration | United Kingdom NPL traceable | United Kingdom NPL traceable | United Kingdom NPL traceable |
| Warranty | 1 Year, parts and labor. | 1 Year, parts and labor. | 1 Year, parts and labor. |
| Made by | EMC Test Design, LLC USA | EMC Test Design, LLC USA | EMC Test Design, LLC, USA |