

MODEL NUMBER:
RFM

HIGH PERFORMANCE BROADBAND RADIATION FIELD METER

The RFM High Performance Broadband Radiation Field Meter is designed with users in mind, it is lightweight, standard battery operated, and has a bright user friendly interface. Every probe is individually calibrated for absolute test levels and linearity at specified frequencies. Probe data are stored on memory cards and in RFM non-volatile memory. NIST or UK NPL traceable Calibration Certificate is supplied with each unit.



FEATURES

- Calibration Accuracy: +/-0.5 dB
- Linearity deviation: +/- 0.5 dB
- Battery life: >20 hours.

SPECIFICATION

Reading Autorange. One continuous range	RMS (root mean square) in all modes 10 mV/m-1000 V/m (0.02nW/cm ² -249 mW/cm ²)
Resolution	0.1% typically (1 unit of the last digit of 3 digit display)
Calibration accuracy	+/- 0.5 dB (at reference levels)
Linearity deviation	+/- 0.5 dB
Probe rotational isotropicity	+/- 0.5 dB typically, depends on probe model
Operating modes	Fast (30 msec.)/Slow (300 msec.)
Averaging type	Time Averaging, Spatial Averaging (manual data logging)
Averaging time interval	30/300 msec.- 30 min. in 11/9 steps.
Data logging	Internal MMC compatible memory card (32-4096 MB)
Logging time interval	30/300 msec.-30 min. in 11/9 steps
Practically unlimited	1 GB card stores up to 1000 files, 100,000 data points in each Automatic and/or user activated. Works even at strong EM fields.
Display	OLED color display with power saving timeout. Bidirectional RS232 optically decoupled cable or fiber optic.
Remote control	IR Remote Control
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 For probes: -10C°-50C°, non-condensing
Temperature error	<0.08 dB/°C (fields < 2 V/m), <0.05 dB/°C (fields > 2 V/m) Two AA cells battery (rechargeable NiMHd or alkaline primary), AC/DC charger 5V/1A.
Battery life	25-55 hr., depending on use, standby 1000 hr. Auto standby mode. Low battery indicator.
Dimensions	Meter (hwxwd) 130x80x30 mm., 5x3.125x1.25 inch, Probe (LxD) 230x58 mm, 9.0x2.25 inch.
Weight	Meter 340 g., 0.75 lb; Probe 100 g., 0.22 lb.



OPTIONAL OPTIONS

- EFP100M - 100 kHz - 100 MHz Electric Field Probe
- EFP3G - 200 kHz - 3 GHz Electric Field Probe
- EFP18G - 3 MHz - 18 GHz Electric Field Probe
- EFP40G - 1 MHz - 40 GHz Electric Field Probe
- EFP60G - 100 MHz - 60 GHz Electric Field Probe

