

EMF – 18G

Electric Field Probe designed for EMC and EMS environments

Key Features:

- Super Ultra Wide Band (10 kHz ÷ 18GHz)
- 20ms Sample rate
- Extremely small size
- Operation Time:> 45 hours, recharging time 2 hours
- “ EMC Viewer ” Software for system management
- Up to 8 sensors can be connected simultaneously
- Indication of the position and inclination of the sensors



Typical Applications:

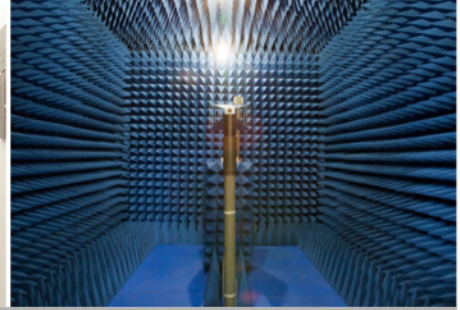
- Characterisation of the Electric Field in TEM - GTEM cells and Anechoic Chambers
- Electromagnetic Safety control and monitoring in laboratories or critical areas



MICRORAD

Subject to change without prior notice

Piazza delle Azalee, 13/14 05018 – Orvieto (TR)
Tel. +39 0763 393291 /Fax. +39 0763 394423 info@microrad.it - www.microrad.it



EMF – 18G

Electric Field Probe designed for EMC and EMS environments

Description

The bandwidth and the sampling rate of this active probe makes it the reference point for users in this field. This single probe provides the user with fast, easy and precise characteristics of Electric Fields (E) in the 10kHz to 18GHz range.

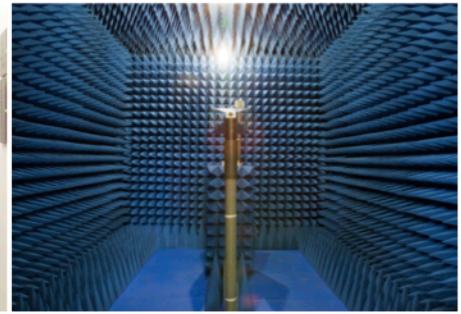
This probe has been designed to operate in electric field environments such as TEM cell, GTEM, anechoic chambers as well as for Electromagnetic Safety applications. It is suitable for use in TEM cells which have a septum of 45cm.

The readings and measurements taken by the probe are displayed on a Tablet/PC by way of the EMC Viewer software which is supplied with the probe.

This software displays the instantaneous value of the isotropic measurement both for the single axes and the amplitude/time response of the Electric Field. The EMC Viewer software can manage and display up to 8 probes simultaneously. The user can also export the resulting graphics and data for further processing.

The exceptional autonomy of the device together with the fast charging time allow the user to work for 4 hours after having recharged the battery for only 20 minutes.

TECHNICAL SPECIFICATIONS		
Frequency range	10 kHz ÷ 18 GHz	
Amplitude vs frequency (without correction)	10 kHz ÷ 100 kHz	-6/0 dB
	100 kHz ÷ 1 GHz	+/-1 dB
	1 GHz ÷ 18 GHz	+/- 3 dB
Amplitude vs frequency (with correction)	10 KHz ÷ 18 GHz 0.5 dB	
Dynamic range	0.5 ÷ 500V/m 60dB	
Overload	1200 V/m	
Linearity	3 ÷ 500V/m, 0.5dB	
Isotropy (Typ. @ 1.8 GHz)	0.4 dB	
Sample rate	20ms ÷ 30s	
Electric field resolution	0.01 V/m	
Temperature resolution / Precision	0.1°C / 0.5°C	
Interfaces	Optical Fibre (USB converter included)	
Software	EMC Viewer	



EMF – 18G

Electric Field Probe designed for EMC and EMS environments

GENERAL SPECIFICATIONS	
Power supply	Rechargeable Li-Ion batteries
Operation time	>45 h @ 1sample/s
Charging time	2 h (full charge)
Temperature Range	Operational : 0°C to +40°C Storage: -20°C to +70°C
Humidity	5% + 95% Non Condensing
Size (L x W)	140 x 60 mm
Weight	100 g
Country of origin	Italy

EMF – 18G Accessories Kit

- Probe EMF -18G
- Optical to USB converter
- Fibre Optic Cable (10mt)
- AC/DC power supply
- Standard Calibration Certificate
- User manual
- Rigid Case
- Table Tripod



EMF – 18G Optional Accessories

- Accredited calibration certificate