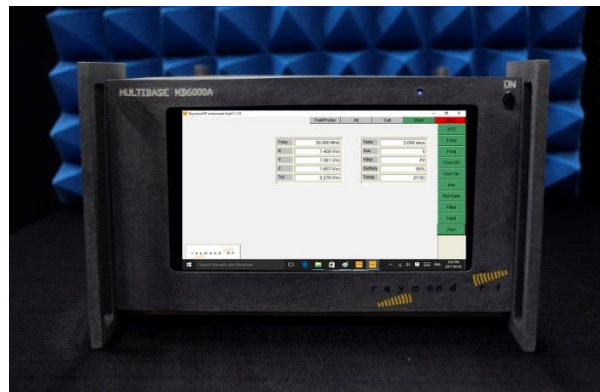# FP6 Field Probe

**raymond RF**

## Description

Raymond RF's FP6 field probes are supported by our MultiBase Controller.  With the optional GPIB Interface, it can be seamlessly integrated into industry standard EMC and Antenna Measurement Systems.

## Features

- Modular Designed Software linked with TCP/IP
- Customizable GPIB Commands
- Software upgradeable with USB flash drive
- Can control up to 6 probes
- 100 kHz – 9.25 GHz
- Incorporates the NARDA EP-600 Probe
- Fibreoptic Link
- Calibration Verified by Raymond RF

**RF Field Probe Module**



## Specifications

|  | FP6 |
| --- | --- |
| Bandwidth (Hz) | 100kHz - 9.25GHz |
| Range | 0.14 - 140 V/m |
| Dynamic Range | 60 dB |
| Resolution | 0.01 dB |
| Isotropicity | 0.5 dB |
| Operation Time | 60-100 Hours |
| see full specs on next page | |



## Options

- Industry compatible GPIB Interface.  Designed for Commercial Measurement Software
- USB Keyboard & Pointing Device
- Rack mount kit for 1/2 width or full width 19" rack

# FP6 Field Probe

| TABLE 1-1 Specifications of the electric field probe PMM EP-600 | |
|---|---|
| Frequency range | 100 kHz – 9.25 GHz |
| Level range | 0.14 – 140 V/m |
| Overload | > 300 V/m |
| Dynamic range | 60 dB |
| Linearity | 0.4 dB @ 50 MHz/0.3 – 100 V/m |
| Resolution | 0.01 V/m |
| Sensitivity | 0.14 V/m |
| | |
| Flatness | 1 – 150 MHz   0.8 dB |
| | 0.5 – 6000 MHz   1.6 dB |
| | 0.3 – 7500 MHz   3.2 dB |
| | (With frequency correction OFF) |
| | |
| | 0.3 – 7500 MHz   0.4 dB |
| | (Typical with frequency correction ON) |
| | |
| Isotropicity | 0.5 dB  (0.3 dB typical @ 50 MHz) |
| | |
| Sensors | Six monopoles |
| X/Y/Z reading | Simultaneous sampling of the components |
| Battery reading | 10 mV res. |
| Temperature reading | 0.1 °C res. |
| Internal data memory | Serial number |
| | Date calibration |
| | Calibration Factor |
| | SW release. |
| | |
| Battery | Panasonic ML621S 3V 5mA/h rechargeable Li-Mn |
| Operation time | 100 h @ 0.4 S/sec 28 Hz filter |
| | 60 h @ 3 S/sec 28 Hz filter |
| Recharge time | 48h for maximum autonomy |
| Dimensions | 21 mm sphere |
| | 16 mm sensor |
| | 53 mm overall |
| Weight | 23g including FO weight (1m) |
| Operating temperature | -10° - +50° |
| Software for PC | YES |
| Optical fiber connector | HFBR-0500 |
| Tripod adapter | ¼ - 20 UNC female |