## **Probe PI-7P for Smart Fieldmeter® Digital**

**Isotropic Electric Field Probe PI-07P:** 100 MHz-60 GHz. 4-3000 V/m for HIRF (High Intensity Radiated Fields) applications.

Broadband active isotropic electric field probe PI-07P with two modes of operation **Pulse** and **Average**:

in **Pulse** mode (with included **PU-5P** power unit) it measures the amplitude of pulsed RF fields from RF and microwave sources (microwave radars) with fast sampling detection capability of 1 us (one microsecond).

In Average mode it operates as standard isotropic field probe, measuring the RMS field strength of CW and AM/FM modulated signals.

The PI-07P probe works in the frequency range 100 MHz - 60 GHz, covering most of the test requirements of MIL STD-464, RTCA-DO-160, FAA HIRF Rule & Advisory Circular 20-158, Boeing, Airbus and automotive EMC GM and Ford specifications.

## Main Parameters\*

 Diode based 3-Axial isotropic sensor. Field strength range (Pulse):

Field Strength Range (Average) 4-900 V/m Pulse duty cycle range: 0.01% to 10%. Shortest pulse width: 1 us

Longest pulse repetition period: 10 ms Error of duty cycle variation (E>300 V/m) <1 dB Linearity: +/- 0.5 dB

Frequency response (no corr. factors): 100 MHz-6 GHz (+/-3 dB)(+/- 4 dB) 6-18 GHz 18-60 GHz (+/-6 dB)

• Frequency response (with corr. factors): +/- 3.0 dB Rotational isotropicity: <2 dB Rechargeable battery operating time: >60 hrs

Temperature: 5-40 °C Humidity (non-condensing): RH 10-90% Temperature error: 0.05 dB/°C

UK NPL traceable calibration.

12.0"x2.25" (310x58 mm) Probe size (LxD): Power Unit: (LxWxD): 4x2.3x1.3 (100x58x33 mm)

Weight (probe and power unit): 0.5 lb, 230 g

Operates with RFP-05M meter Designed and made in the USA.

\* Specification may be changed to reflect the design progress.

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Probe PI-07P



Probe PI-07P with PU-5P



Meter RFP-05M



EMC Test Design, LLC Rev. 1

150-3000 V/m.