

# **Probe PI-05** **for Smart Fieldmeter® Digital meter**

## **Isotropic Ultra Broadband Electric Field Probe** **PI-05: 1 MHz- 40 GHz, 2 - 1000 V/m**

Modern design probe PI-05, extends the requirements of most EMC and RF safety standards for industrial, military and radar communication applications. High overload field strength limit and operation up to 40 GHz makes this probe a versatile measuring tool for all applications including the microwave K-Band.

### **Main Parameters**

- Diode based: 3-Axial isotropic sensor.
- Sensitivity: 1.2 V/m.
- Linearity: +/- 0.5 dB (2-400 V/m),  
+/- 1 dB (400-1000 V/m).
- Dynamic range: >56 dB (single range).
- Frequency response (without correction factors):  
+/- 3 dB (1 MHz–3 GHz), -3 dB @ 1 MHz  
+6/-0 dB (3 GHz–18 GHz)  
+/- 3 dB (18 GHz–40 GHz)
- Frequency response (with correction factors):  
+/- 1 dB (1 MHz–12 GHz),  
+/- 2 dB (12 GHz–40 GHz).
- Rotational isotropicity:  
+/- 0.5 dB (1 MHz-3 GHz),  
+/- 1.5 dB (3 GHz – 12 GHz)  
+/- 3 dB (12 GHz – 40 GHz).
- Calibration accuracy (at specified freq.) <1 dB.
- Temperature: 5-40 °C,
- Humidity: RH 10-90%, non-condensing.
- Temperature error: <0.05 dB/°C (field > 5 V/m).
- UK NPL traceable calibration.
- Small size: LxD: 9.0x2.25 inch, 230x58 mm.
- Weight: 0.2 lb, 100 g.
- Operates with RFP-05 meters.
- **Designed and made in the USA.**



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*Specification may be changed to reflect the design progress*