

Probe PI-03 for Smart Fieldmeter® and Smart Fieldmeter® Digital meters

Isotropic Broadband Electric Field Probe PI-03: 3MHz- 18 GHz, 0.8 - 800 V/m

Classic design probe PI-03, meets the requirements of most EMC and RF safety standards for industrial, military and radar communication applications. High overload limit and stability of the parameters make this probe a versatile measuring tool for all use cases.

Main Parameters*

- Diode based: 3-Axial isotropic sensor.
- Sensitivity: 0.8 V/m.
- Linearity: +/- 0.5 dB (1-400 V/m),
+/- 1 dB (400-800 V/m).
- Dynamic range: >60 dB (single range).
- Frequency response (without correction factors):
+/- 1.5 dB (10 MHz–6 GHz), -3 dB @ 3 MHz,
+/- 3 dB (6 GHz–12 GHz).
- Frequency response (with correction factors):
+/- 1.0 dB (10 MHz–12 GHz),
+/- 3 dB (12 GHz–18 GHz).
- Rotational isotropicity:
+/- 0.5 dB (3 MHz-6 GHz),
+/- 2 dB (6 GHz –18 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 > 2 V/m).
- UK NPL or NIST traceable calibration.
- Small size: LxD: 9.0x2.25 inch, 230x58 mm.
- Weight: 0.2 lb, 100 g.
- Operates with both RFP-04 and RFP-05 meters.
- **Designed and made in the USA.**

* All system parameters are given for RFP-05 meter.

* Specification may be changed to reflect the design progress.



EMC Test Design, LLC®
P.O. Box 600532,
Newton, MA 02460,
USA.
www.emctd.com,
exid@emctd.com,
508-292-1833.



Probe PI-01E

for Smart Fieldmeter® and Smart Fieldmeter® Digital meters

Probe directivity: Omni directional (Isotropic probe).
Dynamic range: **0.8-800 V/m (with RFP-05 Meter).**
Frequency range: **3 MHz-18 GHz.**
Frequency response

with correction factors:

Frequency response:

Rotational isotropicity: +/- 0.5 dB (3 MHz-6 GHz).
+/- 2 dB (6 GHz –18 GHz)

↓

