

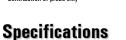
MPT-141-6T

High Field Hall Effect Probe

High Field Application (up to 6 Tesla)

High Accuracy: ±0.05% max. error at 25°C above 2.2T* Calibration tables at 0, 25 and 50°C supplied

^{*}Contribution of probe only



The MPT-141-6T High Field Hall Effect Probe is most suitable to be use with a DTM-151 or DTM-152 Digital Teslameter. Temperature-compensated from 0 to 50°C up to 2.2 Tesla. Probe is calibrated to measure field up to 6.1 Tesla. Transverse orientation reads (+) when field vector enters the top epoxy surface.

Accuracy at 25°C:

 $\pm 0.01\%$ of reading + 0.006% of full scale up to 2.2T, temperature-compensated ±0.05% of reading + 0.006% of full scale above 2.2T at 25°C

Operating Range:

4- Range Operation. 0.3, 0.6, 1.2, 6.0 Tesla Full Scale 3, 6, 12, 60 Kilo Gauss Full Scale

Temperature Stability:

Calibration: ± 10 ppm of reading/°C max.

- 3ppm/°C of reading per meter of probe cable Zero Drift: $\pm (1\mu T + 0.0003\% \text{ of full scale})/^{\circ}C \text{ max.}$

Temperature Range:

0 to 50°C operating to spec, -20 to +60°C max.

ORDER CODE:

MPT-141-6T-7S for probe with basic 7 meters

Special probe cable lengths may be ordered up to 30 meters.

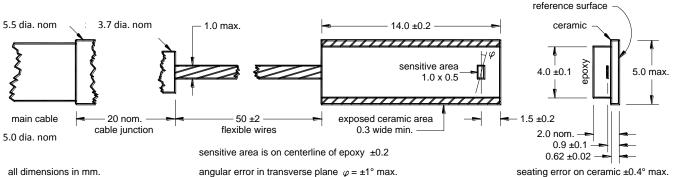
Probe Accessories:

MPT Transverse Probe Holder - Part No. 17000081 MPT Axial Probe Holder - Part No. 17000100

Dimensions:

Probe Head Size: 14 x 5 x 2 mm Sensitive Area: 1 x 0.5 mm Unshielded part of cable at probe head: 5.0 ±0.2mm, 300 mm nominal length

Shielded Cable: Ø 7.2 ± 0.2 mm



all dimensions in mm.

angular error in transverse plane $\varphi = \pm 1^{\circ}$ max.

TABLE -2 DC Mode with Digital Filtering OFF, and AC Mode, 1 in 120,000 of bipolar scan in front of panel display

Range	Display resolution		Serial / GPIB Output Resolution	
	Gauss	Tesla	Gauss	Tesla
0.3	0.05	0.000005	0.001	0.0000001
0.6	0.1	0.00001	0.01	0.000001
1.2	0.2	0.00002	0.01	0.000001
6.0	1	0.0001	0.1	0.00001

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Resolution using DTM-151 Digital Teslameter:

TABLE 1 - DC Mode with Digital Filtering ON 1 in 600,000 of bipolar scan in front of panel display

Range	Display resolution		Serial / GPIB Output Resolution	
	Gauss	Tesla	Gauss	Tesla
0.3	0.01	0.000001	0.001	0.0000001
0.6	0.02	0.000002	0.01	0.000001
1.2	0.04	0.000004	0.01	0.000001
6.0	1	0.0001	0.1	0.00001

Group3 reserves the right to change the specifications at any time without notice.