

MPT-132

Hall Effect Probe

Standard Sensitivity without temperature compensation

High Accuracy: $\pm 0.03\%$ max. error at 25°C*

Low thermal drift at -120ppm/°C max.*

Low Zero Drift of $\pm 0.4\text{G}/^\circ\text{C}$ max. *

Calibration tables at 0, 25 and 50°C supplied

*Contribution of probe only



Specifications

The MPT-132 Hall Effect Probe is most suitable to be use with a DTM-133 or DTM-333 Digital Teslameter.

Probe is calibrated up to 2.2 Tesla, bipolar. Transverse orientation, reads (+) when field vector enters the top epoxy surface.

Accuracy at 25°C:

$\pm 0.03\%$ of reading + 0.03% of full scale with DTM-133

$\pm 0.03\%$ of reading + 0.006% of full scale with DTM-150

Operating Range:

4- Range Operation.

0.3, 0.6, 1.2, 3.0 Tesla Full Scale

3, 6, 12, 30 Kilo Gauss Full Scale

ORDER CODE:

MPT-132-2S for probe with basic 2 meters shielded cable.

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

For single range probes, add range suffix -03, -06, -12, -30

e.g. MPT-132-03-2S

Probe Accessories:

MPT Transverse Probe Holder – Part No. 17000081

MPT Axial Probe Holder – Part No. 17000100

Temperature Stability:

Calibration: -140ppm of reading/°C max.

- 3ppm/°C of reading per meter of probe cable

Zero Drift: $\pm(40\mu\text{T} + 0.0015\% \text{ of full scale})/^\circ\text{C}$ max. with DTM-133

$\pm(40\mu\text{T} + 0.0003\% \text{ of full scale})/^\circ\text{C}$ max. with DTM-150

Temperature Range:

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

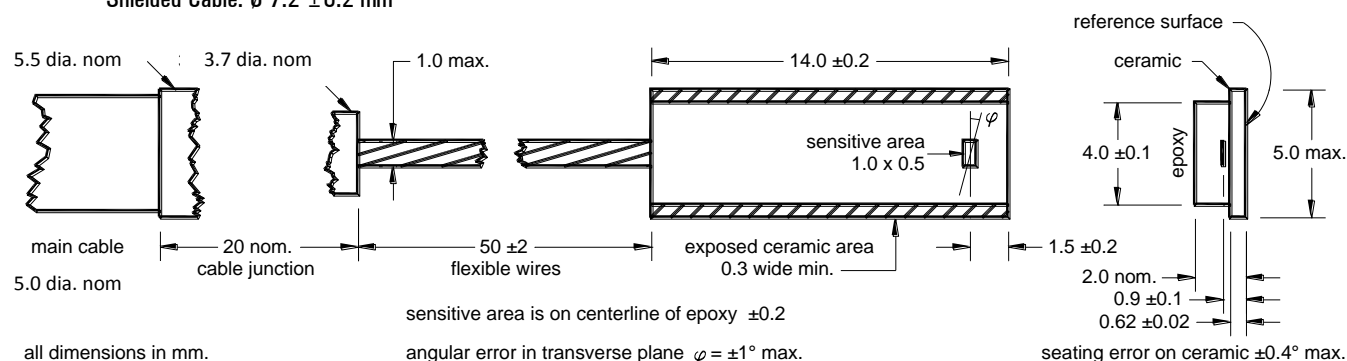
Dimensions:

Probe Head Size: 14 x 5 x 2 mm

Sensitive Area: 1 x 0.5 mm

Unshielded part of cable at probe head: $\varnothing 5.0 \pm 0.2\text{mm}$, 300 mm nominal length

Shielded Cable: $\varnothing 7.2 \pm 0.2\text{mm}$



Resolution using DTM-133 Digital Teslameter:

DC Mode with Digital Filtering ON

Range	Display resolution		Serial / GPIB Output Resolution	
	Gauss	Tesla	Gauss	Tesla
0.3	0.5	0.00005	0.01	0.000001
0.6	1	0.0001	0.02	0.000002
1.2	2	0.0002	0.04	0.000004
3.0	5	0.0005	0.1	0.00001