MPT-230

Hall Effect Probe

High Sensitivity without temperature compensation
(Max. calibrated field is 0.3T or 3000 Gauss)

High Accuracy: ±0.03% max. error at 25°C*
Low thermal drift at -800ppm/°C max.*
Low Zero Drift of ±0.12G/°C max. *
Calibration tables at 0, 25 and 50°C supplied

*Contribution of probe only

Specifications

The MPT-230 Hall Effect Probe is most suitable to be use with a DTM-133 Digital Teslameter.
Probe is calibrated up to 0.3 Tesla, bipolar. Transverse orientation, reads (+) when field vector enters the top epoxy surface.

Accuracy at 25°C:

±0.03% of reading + 0.03% of full scale with DTM-133

Operating Range:

4- Range Operation.
0.03, 0.06, 0.12, 0.30 Tesla Full Scale
300, 600, 1200, 3000 Gauss Full Scale

Temperature Stability:

Calibration: -820ppm of reading/°C max.
- 3ppm/°C of reading per meter of probe cable
Zero Drift: ±(12μT + 0.0015% of full scale)/°C max. with DTM-133

Temperature Range:

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

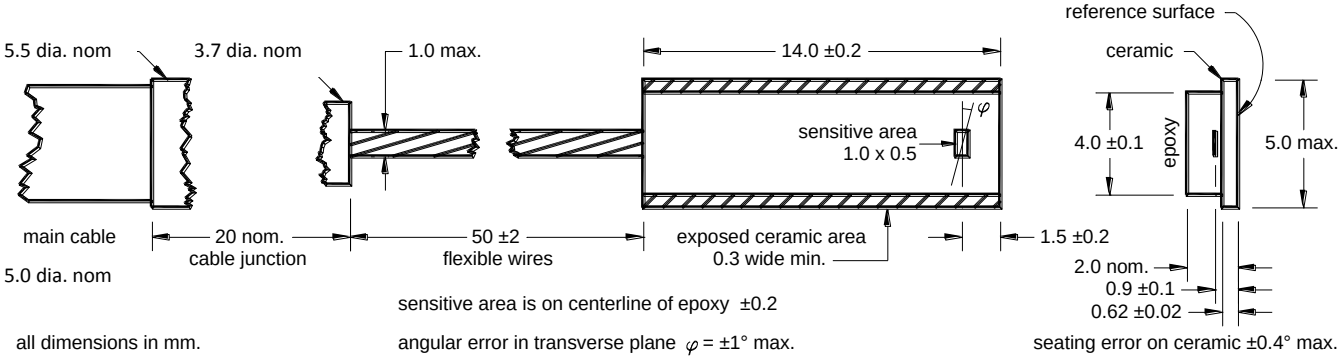
ORDER CODE:

MPT-230-2S 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-230-03-2S

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: Ø5.0 ±0.2 mm, 300 mm nominal length
Shielded Cable: Ø 7.2 ±0.2 mm



all dimensions in mm.

sensitive area is on centerline of epoxy ±0.2

angular error in transverse plane φ = ±1° max.

seating error on ceramic ±0.4° max.

Resolution using DTM-133 Digital Teslameter:

DC Mode with Digital Filtering ON

Range	Display resolution	
	Gauss	Tesla
0.03	0.05	0.000005
0.06	0.1	0.00001
0.12	0.2	0.00002
0.3	0.5	0.00005