

LPT-230

Hall Effect Probe

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

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

Low thermal drift at -600ppm/ $^{\circ}$ C max.*

Low Zero Drift of ±0.12G/°C max. *

Calibration tables at 0, 25 and 50°C supplied

Specifications

The LPT-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 metal surface.

Contribution of probe only

ORDER CODE:

e.g. LPT-230-03-2S

Probe Accessories:



LPT-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

LPT 130/230 Transverse Probe Holder – Part No. 17000049 LPT 130/230 Axial Probe Holder – Part No. 17000091

Accuracy at 25°C:

 $\pm 0.03\%$ 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: -620ppm of reading/°C max.

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

Zero Drift: $\pm (12\mu T + 0.0015\% \text{ of full scale})/^{\circ}C \text{ max. with DTM-133}$

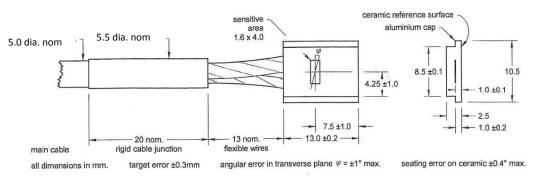
Temperature Range:

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

Dimensions:

Probe Head Size: 13 x 10.5 x 2.5 mm Sensitive Area: 4 x 1.6 mm Unshielded part of cable at probe head: $\emptyset 5.0 \pm 0.2$ mm, 300 mm nominal length

Shielded Cable: \emptyset 7.2 \pm 0.2 mm



Resolution using DTM-133 Digital Teslameter:

TABLE -1 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

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

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