

LPT-130

Hall Effect Probe

Standard Sensitivity without temperature compensation
(Max. calibrated field 2.2T or 22000 Gauss)

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

Low thermal drift at $-60\text{ppm}/^\circ\text{C}$ max.*

Low Zero Drift of $\pm 0.12\text{G}/^\circ\text{C}$ max.*

Calibration tables at 0, 25 and 50°C supplied

*Contribution of probe only



Specifications

The LPT-130 Hall Effect Probe is most suitable to be used with a DTM-133 Digital Teslameter.

The probe is calibrated up to 2.2 Tesla, bipolar. Transverse orientation reads (+) when field vector enters top metal surface.

Accuracy at 25°C :

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

Operating Range:

4- Range Operation.

0.3, 0.6, 1.2, 3.0 Tesla Full Scale

3, 6, 12, 30 Kilo Gauss Full Scale

Temperature Stability:

Calibration: -80ppm of reading/ $^\circ\text{C}$ max.

$-3\text{ppm}/^\circ\text{C}$ of reading per meter of probe cable

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

$\pm(12\mu\text{T} + 0.0003\%$ of full scale) $/^\circ\text{C}$ max. with DTM-150

Temperature Range:

0 to 50°C operating to spec, -20 to $+60^\circ\text{C}$ max.

Dimensions:

Probe Head Size: $13 \times 10.5 \times 2.5$ mm

Sensitive Area: 4×1.6 mm

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

Shielded Cable: $\varnothing 7.2 \pm 0.2$ mm

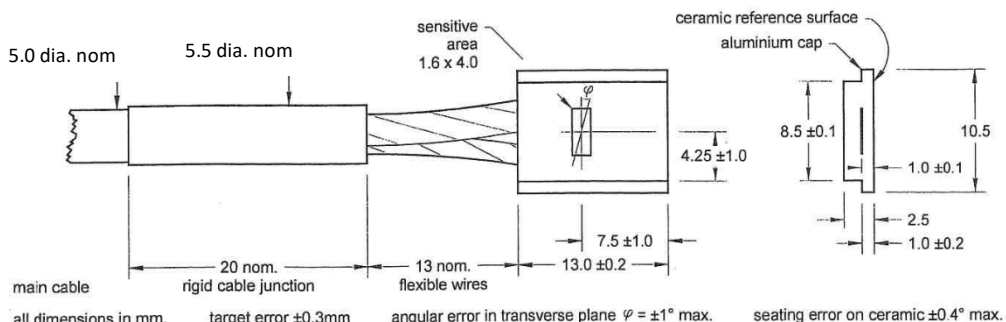
ORDER CODE:

LPT-130-2S 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. LPT-130-03-2S

Probe Accessories:

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

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



Resolution using DTM-133 Digital Teslameter:

TABLE 1 - DC Mode with Digital Filtering ON

Range	Display resolution	
	Gauss	Tesla
0.3	0.5	0.00005
0.6	1	0.0001
1.2	2	0.0002
3.0	5	0.0005

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