

STANDARD SENSITIVITY HALL PROBE

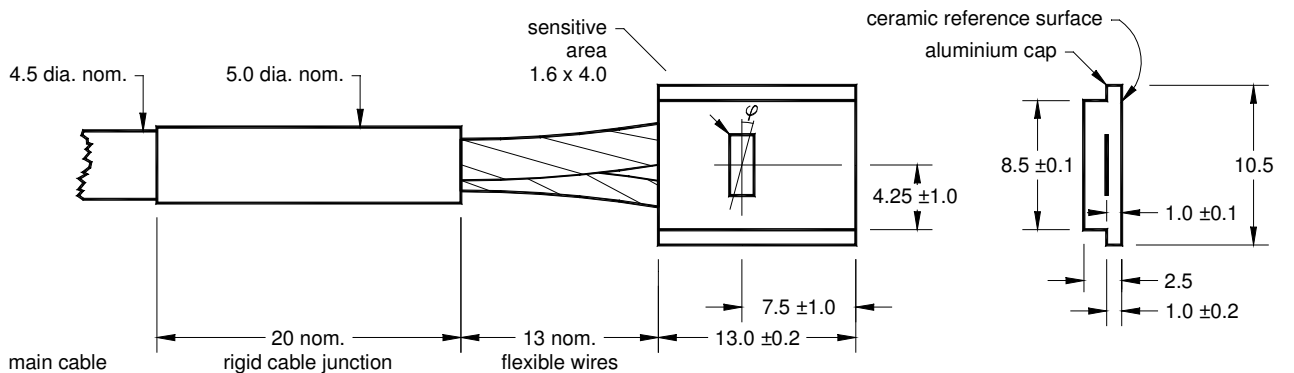
- **High accuracy: $\pm 0.03\%$ max. error at 25 °C*.**
- **Low thermal drift: -60ppm/°C max*.**
- **Low zero drift: ± 0.12 gauss/°C max*.**
- **Calibration tables at 0, 25 and 50 °C supplied with each probe.**

* contribution of probe only.

Specifications of system – LPT-130 with DTM-133 and DTM-150 teslameters:

Orientation	Transverse, reads positive when field vector enters top metal surface				
Field ranges	0.3 0.6 1.2 3.0 tesla full-scale 3 6 12 30 kilogauss full scale				
	with polarity indication, calibrated to ± 2.2 tesla, $\pm 22,000$ gauss				
Accuracy at 25 °C	$\pm(0.03\%$ of reading + 0.03% of full scale) max. with DTM-133 $\pm(0.03\%$ of reading + 0.006% of full scale) max. with DTM-150				
Resolution	range	DTM-133 resolution		DTM-150 resolution	
		gauss	tesla	gauss	tesla
	0.3 tesla	0.5	0.00005	0.01	0.000001
	0.6 tesla	1	0.0001	0.02	0.000002
	1.2 tesla	2	0.0002	0.04	0.000004
	3.0 tesla	5	0.0005	0.1	0.00001
Temperature range	0 to 50 °C operating to spec, -20 to +60 °C max.				
Temperature stability	calibration: -80ppm of reading/°C max. -3ppm/°C of reading per meter of probe cable				
	zero drift: $\pm(12\mu\text{T} + 0.0015\%$ of full-scale)/°C max. with DTM-133 $\pm(12\mu\text{T} + 0.0003\%$ of full-scale)/°C max. with DTM-150				
Probe dimensions	overall size: 13 x 10.5 x 2.5mm sensitive area: 4 x 1.6mm unshielded part of cable: 4.5mm diam. 300mm nom. length shielded cable: 6.5mm diam.				
Order code	LPT-130-2s for probe with basic 2 meter shielded cable length. Special probe cable lengths may be ordered up to 30 meters max.				

Single-range probes: add range suffix -03 -06 -12 -30, e.g. LPT-130-03-2s.



all dimensions in mm. target error $\pm 0.3\text{mm}$ angular error in transverse plane $\varphi = \pm 1^\circ$ max. seating error on ceramic $\pm 0.4^\circ$ max.