

MINIATURE STANDARD SENSITIVITY HALL PROBE

- Very small sensitive area, small physical size.
- High accuracy: $\pm 0.03\%$ max. error at 25 °C*.
- Low thermal drift: -120ppm/°C max*.
- Low zero drift: ± 0.4 gauss/°C max*.
- Calibration tables at 0, 25 and 50 °C supplied with each probe.

* contribution of probe only.

Specifications of system – MPT-132 with DTM-133 and DTM-150 teslameters:

Orientation	Transverse, reads positive when field vector enters top epoxy 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	<table border="1"> <thead> <tr> <th>range</th> <th colspan="2">DTM-133 resolution</th> <th colspan="2">DTM-150 resolution</th> </tr> <tr> <td></td> <th>gauss</th> <th>tesla</th> <th>gauss</th> <th>tesla</th> </tr> </thead> <tbody> <tr> <td>0.3 tesla</td> <td>0.5</td> <td>0.00005</td> <td>0.01</td> <td>0.000001</td> </tr> <tr> <td>0.6 tesla</td> <td>1</td> <td>0.0001</td> <td>0.02</td> <td>0.000002</td> </tr> <tr> <td>1.2 tesla</td> <td>2</td> <td>0.0002</td> <td>0.04</td> <td>0.000004</td> </tr> <tr> <td>3.0 tesla</td> <td>5</td> <td>0.0005</td> <td>0.1</td> <td>0.00001</td> </tr> </tbody> </table>	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
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Temperature range	0 to 50 °C operating to spec, -20 to +60 °C max.																														
Temperature stability	calibration: -140ppm of reading/°C max. -3ppm/°C of reading per meter of probe cable zero drift: $\pm(40\mu\text{T} + 0.0015\%$ of full-scale)/°C max. with DTM-133 $\pm(40\mu\text{T} + 0.0003\%$ of full-scale)/°C max. with DTM-150																														
Probe dimensions	overall size: 14 x 5 x 2 mm sensitive area: 1 x 0.5mm unshielded part of cable: 4.5mm diam. 300mm nom. length shielded cable: 6.5mm diam.																														
Order code	MPT-132-2s 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. MPT-132-03-2s.

