

## MINIATURE STANDARD SENSITIVITY HALL PROBE

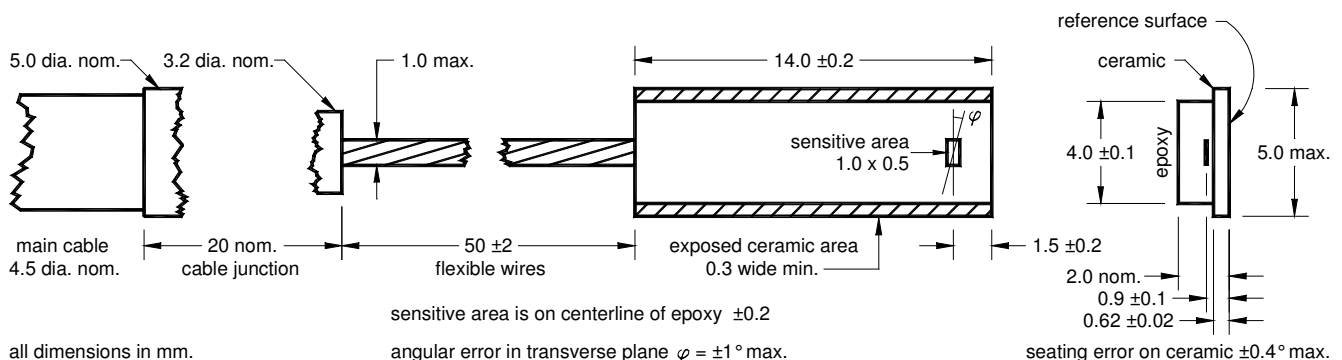
- Very small sensitive area, small physical size.
- High accuracy:  $\pm 0.03\%$  max. error at 25 °C\*.
- Low thermal drift: -120ppm/°C max\*.
- Low zero drift:  $\pm 0.4$  gauss/°C max\*.
- Calibration tables at 0, 25 and 50 °C supplied with each probe.

\* 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<br>3 6 12 30 kilogauss full scale   |                           |              |                           |              |
|                       | with polarity indication, calibrated to $\pm 2.2$ tesla, $\pm 22,000$ gauss  |                           |              |                           |              |
| Accuracy at 25 °C     | $\pm(0.03\%$ of reading + $0.03\%$ of full scale) max. with DTM-133<br>$\pm(0.03\%$ of reading + $0.006\%$ of full scale) max. with DTM-150          |                           |              |                           |              |
| Resolution            | <b>range</b>   | <b>DTM-133 resolution</b> |              | <b>DTM-150 resolution</b> |              |
|                       |  | <b>gauss</b>              | <b>tesla</b> | <b>gauss</b>              | <b>tesla</b> |
|                       | 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: -140ppm of reading/°C max.<br>-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<br>$\pm(40\mu\text{T} + 0.0003\%$ of full-scale)/°C max. with DTM-150 |                           |              |                           |              |
| Probe dimensions      | overall size: 14 x 5 x 2 mm<br>sensitive area: 1 x 0.5mm<br>unshielded part of cable: 4.5mm diam. 300mm nom. length<br>shielded cable: 6.5mm diam.   |                           |              |                           |              |
| Order code            | MPT-132-2s for probe with basic 2 meter shielded cable length.<br>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.



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