

3DT-230

3-Axis Hall Effect Probe

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

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

Low thermal drift at $-800\text{ppm}/^{\circ}\text{C}$ max.*

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

* Contribution of probe

Specifications

The 3DT-230 Hall Effect Probe is designed for use with a DTM-350, 3-Channel, Digital Teslameter but may also be used with 3 units of DTM-133 (single channel teslameter).

Probe is calibrated up to 0.3 Tesla, bipolar. In 3-axis orientation, reads (+) when field vector enters the top epoxy surface.

Accuracy at 25°C :

$\pm 0.03\%$ of reading + 0.03% of full scale with DTM-350

Operating Range:

4- Range Operation.

0.03, 0.06, 0.12, 0.3 Tesla Full Scale

300, 600, 1200, 3000 Gauss Full Scale

ORDER CODE:

3DT-230-5S for probe with basic 5 meters shielded cable on each axis.

Special probe cable lengths may be ordered up to 30 meters.
Probe has built-in probe holder.

Temperature Stability:

Calibration: -820ppm of reading/ $^{\circ}\text{C}$ max.

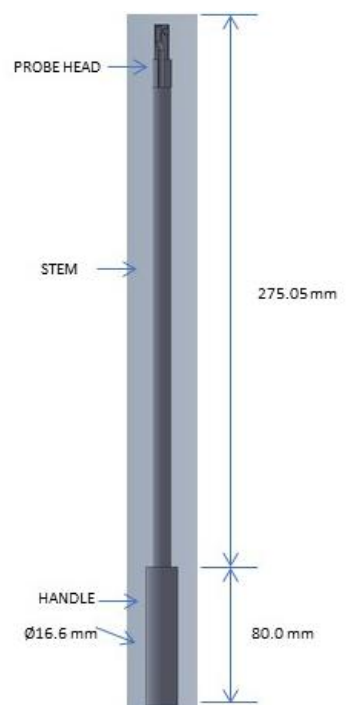
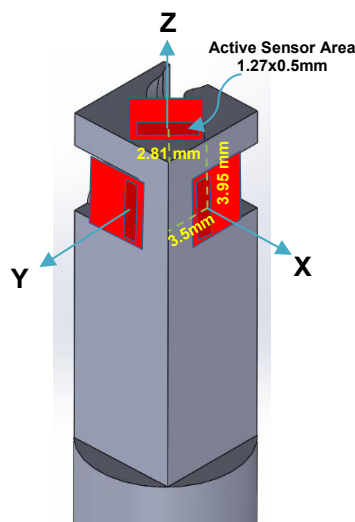
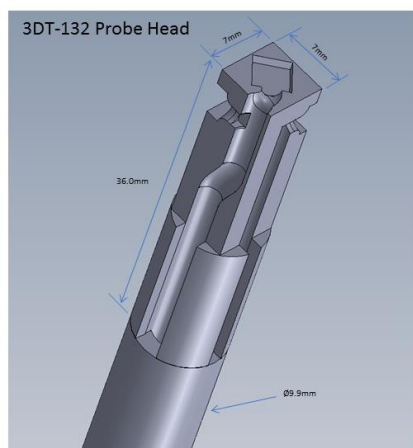
$-3\text{ppm}/^{\circ}\text{C}$ of reading per meter of probe cable

Zero Drift: $\pm(12\mu\text{T} + 0.0015\%$ of full scale)/ $^{\circ}\text{C}$ max. with DTM-350

Temperature Range:

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

Dimensions:



Resolution using DTM-350 Digital Teslameter:

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