

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 -800ppm/°C max.*
 Low Zero Drift of $\pm 0.12\text{G}/^\circ\text{C}$ max. *

*Contribution of probe only

Specifications

The 3DT-230 Hall Effect Probe is designed for use with a DTM-333, 3-Channel, Digital Teslameter but may also be use with 3 units of DTM-133 (single channel teslameter).

Probe is calibrated up to 0.3 Tesla, bipolar. Transverse 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-333

Operating Range:

4- Range Operation.
0.03, 0.06, 0.12, 0.3 Tesla Full Scale
300, 600, 1200, 3000 Gauss Full Scale

Temperature Stability:

Calibration: -820ppm of reading/°C max.
 - 3ppm/°C of reading per meter of probe cable
 Zero Drift: $\pm(12\mu\text{T} + 0.0015\% \text{ of full scale})/^\circ\text{C}$ max. with DTM-333

Temperature Range:

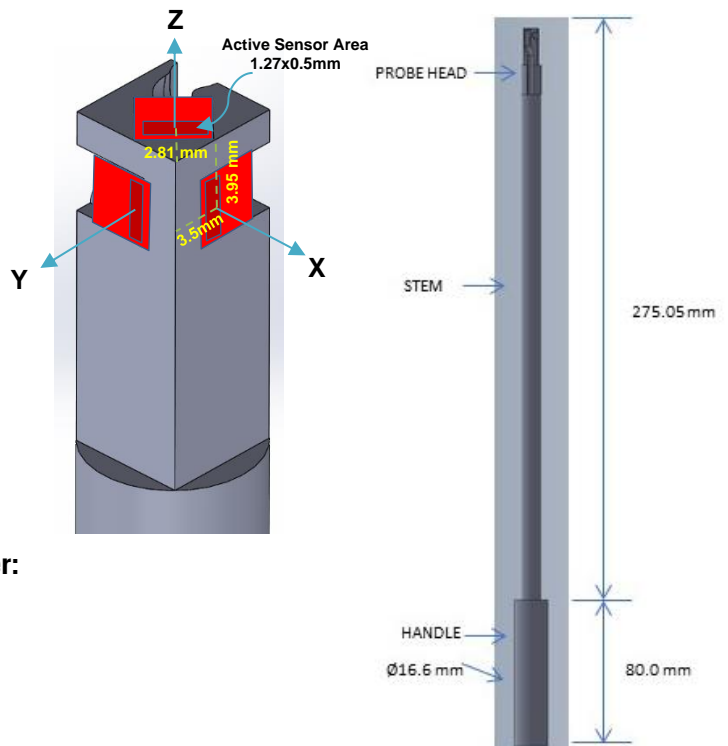
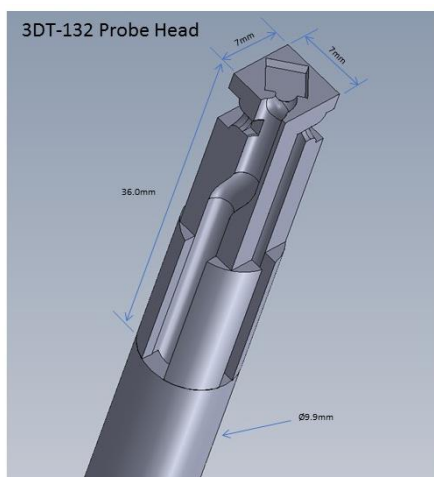
0 to 50°C operating to spec, -20 to +60°C max.



ORDER CODE:

3DT-230-10S for probe with basic 10 meters shielded cable.
 Special probe cable lengths may be ordered up to 30 meters.
 Probe has built-in probe holder.
 See below dimensions for details.

Dimensions:



Resolution using DTM-333 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