

THM1176 AND TFM1186 COMPACT 3-AXIS MAGNETOMETERS GO ANYWHERE, MEASURE ANYTHING!



THM1176 and TFM1186

magnetometers: ultra-compact and easy-to-use instruments to measure and map all three components of a magnetic field using Hall and Fluxgate technologies.



Comprehensive family of 3-axis sensors



DC or AC magnetic fields up to 1 kHz



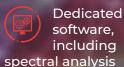
Field strengths from nanoteslas to 20 T



Accuracy on the order of ±1% in any orientation



3-axis calibration of offset, gain, non-linearity, temperature drift and non-orthogonality





Delivered with a calibration certificate



USB interface



METROLAB

We are the global market leader for precision magnetometers.

Established in Switzerland in 1985, we have won the trust of all the large physics laboratories and all leading players in Magnetic Resonance Imaging, across the world. With Metrolab, you measure magnetic fields with Swiss precision and quality.

PROBE FAMILY

PROBE	TYPICAL APPLICATION	TECHNOLOGY	KEY SPECIFICATIONS	PROBE DIMENSIONS	
TFM1186	Earth's Earth's Earth-field disturbances		Range up to 100 µT Resolution 4 nT Accuracy ±0.5%, ±100 nT	Housing 70 x 30 x 32 mm Cable 3 m	
THM1176-LF	Weak/fringe fields	Discrete 3-axis Hall sensors	Range up to 8 mT Resolution 2 µT Accuracy ±20 µT	Housing 113 x 16 x 10 mm Cable 3 m, optionally 6 m	
THM1176-MF	General purpose	Integrated 3-axis Hall sensor	Range up to 3 T Resolution 0.1 mT Accuracy ±1%	Housing 113 x 16 x 10 mm Sensor 16.5 x 5 x 2.3 mm Cable 3 m, optionally 6 m	
THM1176-HF	Very strong fields	Integrated 3-axis Hall sensor	Range up to 20 T* Resolution 0.3 mT Accuracy ±1%	Housing 113 x 16 x 10 mm Sensor 16.5 x 5 x 2.3 mm Cable 6 m	
THM1176-HFC	Narrow gaps	l Integrated 3-axis Hall sensor	Range up to 20 T** Resolution 0.3 mT Accuracy ±1%	No housing Sensor 0.5 x 2 x 8 mm Cable 3 m, optionally 6 m	
l nT l μT l mT l T Resolution Range Max			Accuracy specified for total field Accuracy typically 10x better alon *Calibrated to 14 T **Calibrated to 1.5 T	Accuracy typically 10x better along primary axes: Bx, By, Bz. *Calibrated to 14 T	



EZMag3D SOFTWARE

OPERATING SYSTEMS	Windows, macOS, Linux		
KEY MEASUREMENT	Output: Bx, By, Bz, temperature (uncalibrated) Timestamp (167 ns resolution) Sample rate - depends on trigger mode: 0.36 Sa/s to 6.8 kSa/s (1 Sa = Bx, By, Bz)		
OPERATING MODES	Teslameter, Spectral analysis, AC analysis, Mapping		
MAIN FEATURES	Graphical displays Control of range, units, trigger, acquisition & display rates Save or load settings and measurement file		
OPERATING CONDITIONS	Temperature: 0 to 40°C Magnetic: electronics < 3 T; handheld tablet < 1 T		

KITS AND ACCESSORIES

Desktop Kit: a magnetometer to plug into the USB port of your computer.

Duo Kit: cost-effective package including your selection of two probes and a carrying case.

Handheld Kit: includes a carrying case with the tablet computer, charger, adapters and cables.

All kits include a USB drive containing the manual and EZMag3D software. Firmware and EZMag3D Software upgrades also included.

THM1176 kits include a zero-gauss chamber.

Warranty: 2 years Calibration interval: 18 months CE marked

Specifications are subject to change; for detailed and up-to-date specifications, please see www.metrolab.com/THM1176/specs

METROLAB TECHNOLOGY SA

🔾 110, ch. du Pont-du-Centenaire, 1228 Geneva, Switzerland

+41 22 884 33 11

contacts@metrolab.com

▼ www.metrolab.com