



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



Comprehensive family of 3-axis sensors

DC or AC magnetic fields up to 1 kHz



Accuracy on the order of <u>±1%</u> in any orientation

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

Dedicated software, including spectral analysis

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.

METROLAB

Delivered with a calibration certificate

USB interface

We are the **global market leader** for precision magnetometers. Established in Switzerland in 1985, we have won the trust of all the large ABOUT physics laboratories and all leading players in Magnetic Resonance Imaging, across the world.

With Metrolab, you measure magnetic fields with **Swiss precision and quality**. 上海昊量光电设备有限公司上海市徐汇区虹梅路2007号6号楼3楼 上海具量光电设备有限公司2月hones4000-388-53a。WeChatselaunionteelenWebsitereversteunionteelmoonteelmainfo@auniontech.com

PROBE FAMILY

PROBE	TYPICAL APPLICATION	TECHNOLOGY	KEY SPECIFICATIONS	PROBE DIMENSIONS
TFM1186	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	5 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	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
	nT 1µT	1mT 1T	Accuracy specified for total field	

-0

H

*Calibrated to 14 T **Calibrated to 1.5 T

Accuracy typically 10x better along primary axes: Bx, By, Bz.

E		TFM1186 THM1176-LF THM1176-MF THM1176-HF THM1176-HFC	
OPERATING SYSTEMS	Windows, macOS, Linux	Desktop Kit: a magnetometer to plug into the USB port of your computer.	
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)	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	
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	EZMag3D software. Firmware and EZMag3D Software upgrades also included. THM1176 kits include a zero-gauss chamber.	
OPERATING CONDITIONS	Temperature: 0 to 40°C Magnetic: electronics < 3 T; handheld tablet < 1 T	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

上海吴量光电设备有限公司上海市徐汇区虹梅路2007号6号楼3楼

上海吴量光电设备有限公司21Bhones4000-388-532aWeChteteleumioonteelenWebsiterewarteumionteelenwebsit