

TM4100B Handheld Fluxgate Magnetometer



1. Summary

The **TM4100B** is a portable meter that measures low magnetic field, equipped with high sensitivity, high linearity, low drift fluxgate sensor, which can measure low magnetic accurately.

2. Features

- Range: 0~2000 μ T.
- Various of probes are optional.
- Accuracy: class 1 or 2.
- Unit switch: μ T, mG.
- Relative measurement mode.
- Max. hold function.
- N/S polarity display.
- USB interface.
- Small size, light weight.

3. Application

- Measuring low magnetic field.
- Geological prospecting.
- Fragmentation processing, security check.
- Fault location, research experiment.
- Magnetic shielding evaluation.
- Calibrating low magnetic field sources.
- Detecting magnetic resonance meter.
- Detecting electron microscope.
- Detecting Magnetic field drift.

4. Specifications

Probe ^[1] (μT)	Resolution (nT)	Accuracy		Noise @1Hz	Temperature Coefficient (%/°C)
		Class 2	Class 1		
100	10	±2%	±1%	< 20 nT _{rms}	± 0.1
500	10	±2%	±1%	< 20 nT _{rms}	± 0.1
1000	100	±2%	±1%	< 20 nT _{rms}	± 0.1
2000	100	±2%	±1%	< 20 nT _{rms}	± 0.1

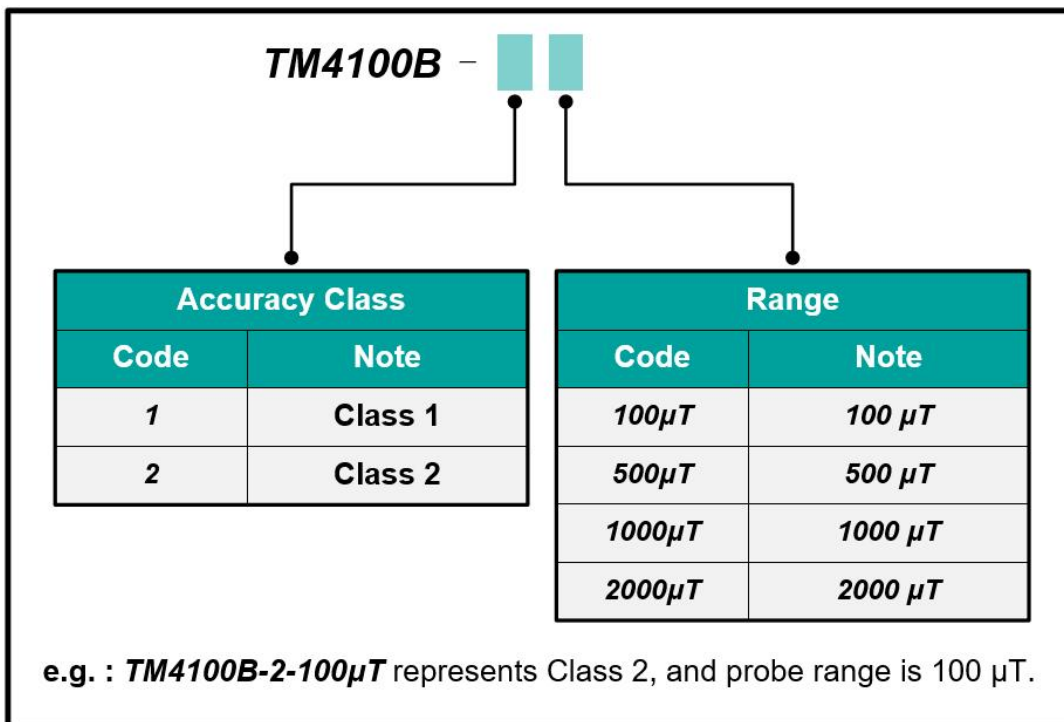
Note [1]: The corresponding probe is selected according to the measurement of range.

- Measuring range: 0~± 2000 μT, 5-digits display.
- Frequency Range: DC~400 Hz.
- Linearity: ± 0.5%.





5. General Specifications

Power Supply	3 AA batteries or USB charging
Temperature Performance	Operating temperature: 0°C~45°C Storage temperature: -20°C~70°C
Humidity Performance	Working humidity: 20%~80% R·H, Non-condensing Storage humidity: < 85% R·H, Non-condensing
Weight	About 350 g
Interface	Fluxgate probe input interface, USB interface
Dimensions	90 mm (W) × 40 mm(D) × 165 mm(H)
Probe Dimensions	20 mm (L) × 13 mm (W) × 6.3 mm (H)

6. Ordering Information



7. Probe Selection

Number	Picture	Name	Specification	Quantity	Remark
1		TM1200-100µT Miniature Fluxgate Probe	100µT range / uniaxial / 1.5m / Lemo plug	1	Optional Accessory
2		TM1200-500µT Miniature Fluxgate Probe	500µT range / uniaxial / 1.5m / Lemo plug	1	Optional Accessory
3		TM1200-1000µT Miniature Fluxgate Probe	1000µT range / uniaxial / 1.5m / Lemo plug	1	Optional Accessory
4		TM1200-2000µT Miniature Fluxgate Probe	2000µT range / uniaxial / 1.5m / Lemo plug	1	Optional Accessory

Note: User indicates the range in the order contract, and the probe is provided by range.