

# TM4300B Handheld Triaxial Fluxgate Magnetometer



## 1. Summary

**TM4300B** is a portable, multi-function meter that measures low magnetic field, equipped with high sensitivity, high linearity, low drift triaxial fluxgate sensor, which can measure low magnetic field accurately.

## 2. Features

- Range: 0~2000  $\mu$ T.
- Various of probes are optional.
- Accuracy: class 1 or 2.
- Unit switch:  $\mu$ T, mG.
- +/- polarity display.
- Relative measurement mode.
- Max. hold function.
- USB interface.
- Measuring XYZ component, vector synthetic value.
- Alarm function of exceeding the upper / lower limit.
- Display support backlight and battery power.

- Magnetic measurement data storage.
- Lithium battery, remaining power display.

### 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 <sup>①</sup> ( μT )	Resolution ( nT )	Accuracy		Noise @1Hz	Temperature Coefficient ( %/°C )
		Class 2	Class 1		
100	10	±2%	±1%	< 20 nT <sub>rms</sub>	± 0.1
500	10	±2%	±1%	< 20 nT <sub>rms</sub>	± 0.1
1000	100	±2%	±1%	< 20 nT <sub>rms</sub>	± 0.1
2000	100	±2%	±1%	< 20 nT <sub>rms</sub>	± 0.1

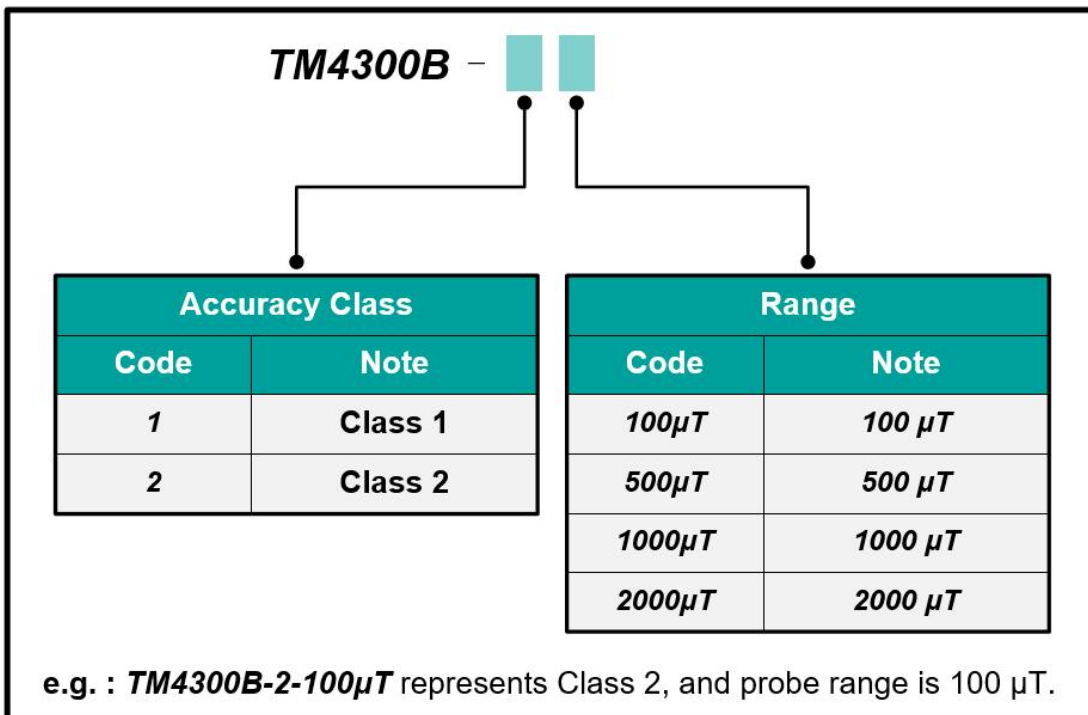
Note [1]: The corresponding probe is selected according to the measurement of range.

- XYZ Range: 0~± 2000 μT
- R Range: 0~± 3464 μT
- Display Digits: 5-digits display.
- Frequency Range: DC~400 Hz
- Linearity: ± 0.5%


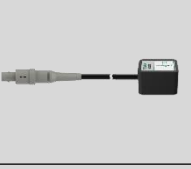
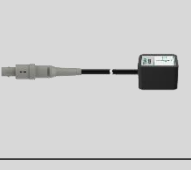

## 5. General Specifications

<b>Power Supply</b>	4000 mAh lithium battery, USB charging
<b>Temperature Performance</b>	Operating temperature: 0°C~45°C Storage temperature: -20°C~70°C
<b>Humidity Performance</b>	Working humidity: 20%~80% R·H, Non-condensing Storage humidity: < 85% R·H, Non-condensing
<b>Weight</b>	About 500 g
<b>Interface</b>	Fluxgate probe input interface, USB interface
<b>Dimensions</b>	90 mm(W) × 40 mm(D) × 165 mm(H)
<b>Probe Dimensions</b>	20 mm(L) × 14 mm(W) × 12 mm(H)

## 6. Ordering Information



## 7. Probe Selection

Serial Number	Picture	Name	Specification	Quantity	Remark
1		TM1230-100µT Miniature Fluxgate Probe	100µT range / triaxial / 1.5m / Lemo plug	1	Optional Accessories
2		TM1230-500µT Miniature Fluxgate Probe	500µT range / triaxial / 1.5m / Lemo plug	1	Optional Accessories
3		TM1230-1000µT Miniature Fluxgate Probe	1000µT range / triaxial / 1.5m / Lemo plug	1	Optional Accessories
4		TM1230-2000µT Miniature Fluxgate Probe	2000µT range / triaxial / 1.5m / Lemo plug	1	Optional Accessories

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