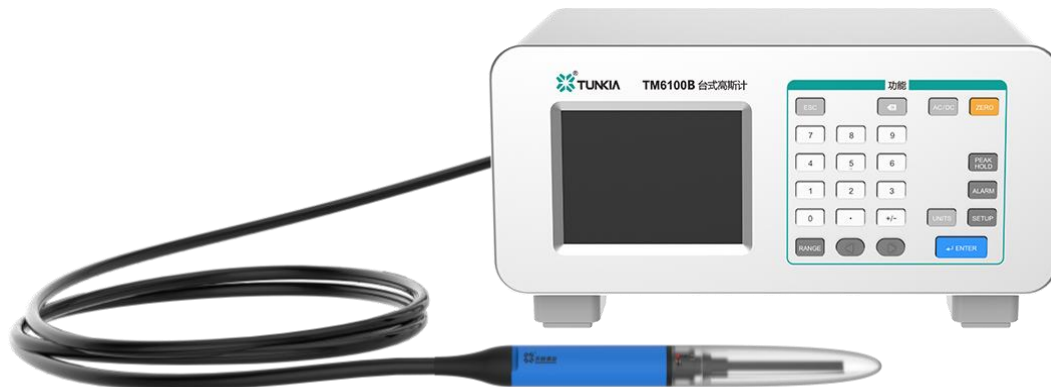


TM6100 Gauss-Meter



1 Summary

The **TM6100** is a high-precision, multi-functional magnetic field measuring instrument equipped with a high-sensitivity, low-drift Hall sensor. It is applied for measuring the magnetic flux density value of a DC (constant) magnetic field or an alternating magnetic field (optional).

2. Features


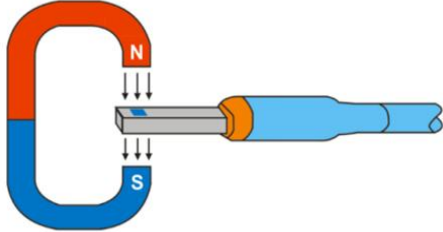


- Range: 2 mT ~ 3000 m T.
- Accuracy: class 0.2 or 0.5.
- Optional AC measurement mode.
- Unit switch: G, mT, A /m, Oe.
- N/S and +/- polarity display.
- Alarm of exceeding the upper / lower limit.
- Max. hold function.
- One-key clear function.
- Measuring parameter correction.
- Radial and axial Hall probes are optional.
- Digital and analog signal output.
- Optional magnetic shielded cavity.
- Small size, light weight.

3. Application



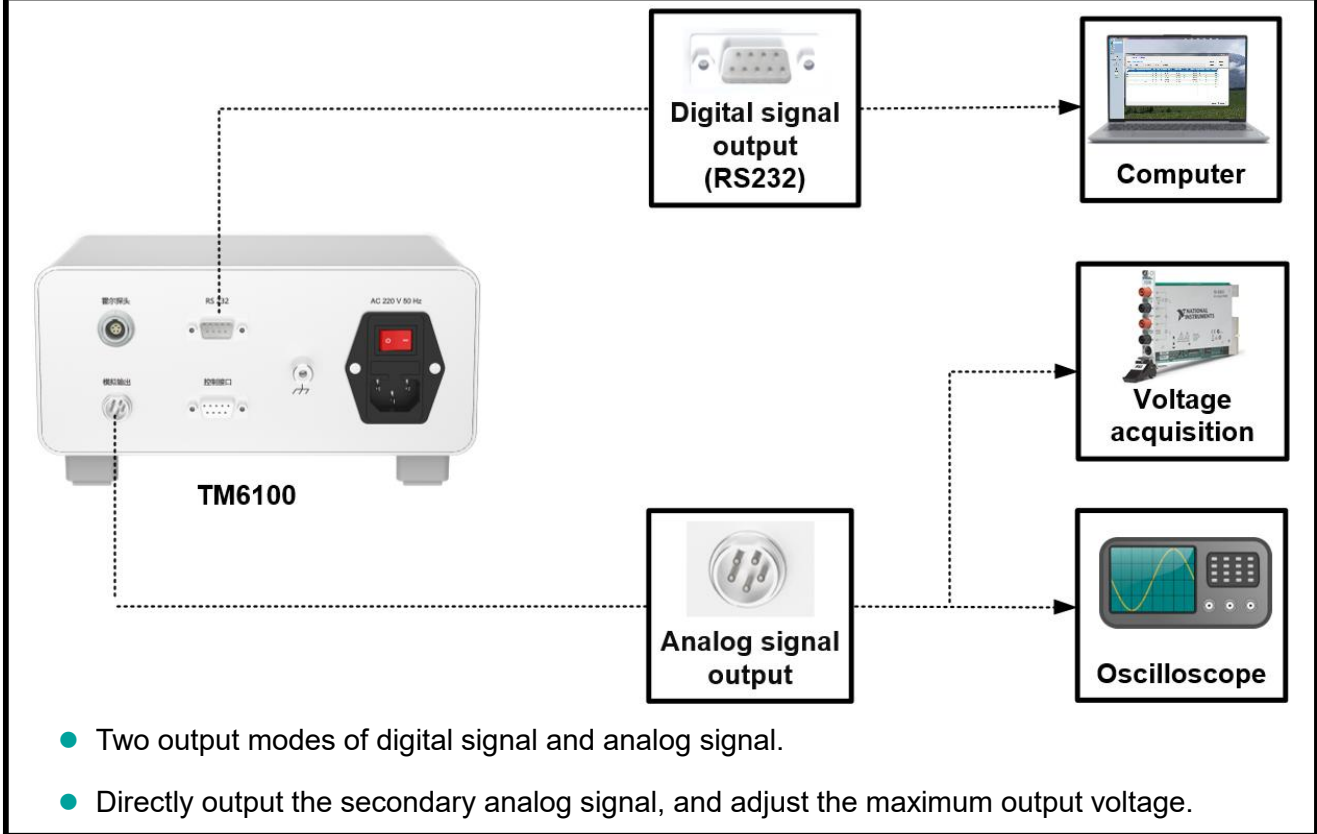
4. Features

☆ Optional Radial or Axial Hall Probe

<p>Radial Hall Probe</p>		
<p>Axial Hall Probe</p>		

● Standard configuration is **Radial Hall probe**, also can choose **Axial Hall probe**.

☆ Digital and Analog Signal Output



☆ One-key Clear Function/ Zero Drift Calibration



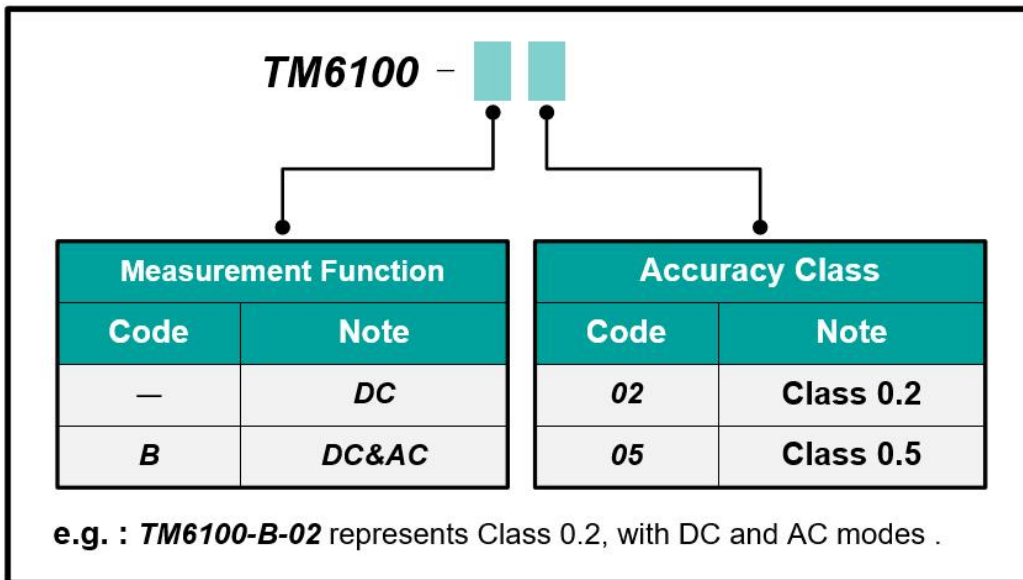
Zero drift calibration operation

Serial Number	Function Description
1	<p>One-key clear function: eliminate the influence of zero drift on the measurement before measuring.</p>
2	<p>Magnetic shielding cavity (optional):</p> <ul style="list-style-type: none"> ● Realize the calibration of the zero drift. ● Can completely remove the influence of the earth's magnetic field with the shielding material of high magnetic permeability. ● Internal magnetic field $<10^{-6}$ T. ● Small size, light weight (about 1 kg).

5. Specifications

Range		30 mT	300 mT	3000 mT ^①
Resolution		1 μ T	10 μ T	0.1 mT
Measuring Range		2 mT ~ 3000 mT		
Accuracy	Class 0.5	DC: $\pm(0.5\% + 200 \mu\text{T})$, AC: $\pm 5\%$ (RMS) ^①		
	Class 0.2	DC: $\pm(0.2\% + 200 \mu\text{T})$, AC: $\pm 5\%$ (RMS)		
Frequency Range		DC, 40Hz ~ 500Hz		
Temperature Coefficient		$\pm 0.1\% / \text{K}$		
Zero Drift		$\pm 0.1 \text{ mT / h}$		
Display Digits		5		
Remark		① AC mode is a feature selected for the TM6100-B		



6. Ordering Information



7. General Specifications

Power Supply	AC (220 ± 22) V, (50 ± 2) Hz
Temperature Performance	Operating temperature: 0°C~50°C Storage temperature: -20°C ~ 70°C
Humidity Performance	Operating humidity: 40% ~ 80 % R·H, non-condensing Storage humidity: < 80% RH, non-condensing
Altitude	< 3000 m
Weight	About 3 kg
Interface	Hall probe input, RS232 interface
Dimensions	225 mm (W) × 170 mm (D) × 115 mm (H)

8. Probe Selection

Serial number	Picture	Name	Specification	Quantity	Remark
1		TM1100 Hall Probe	radial	1	Standard Accessory
2		TM1110 Hall Probe	axial	1	Optional

Note: The users should indicate the probe in the order contract.