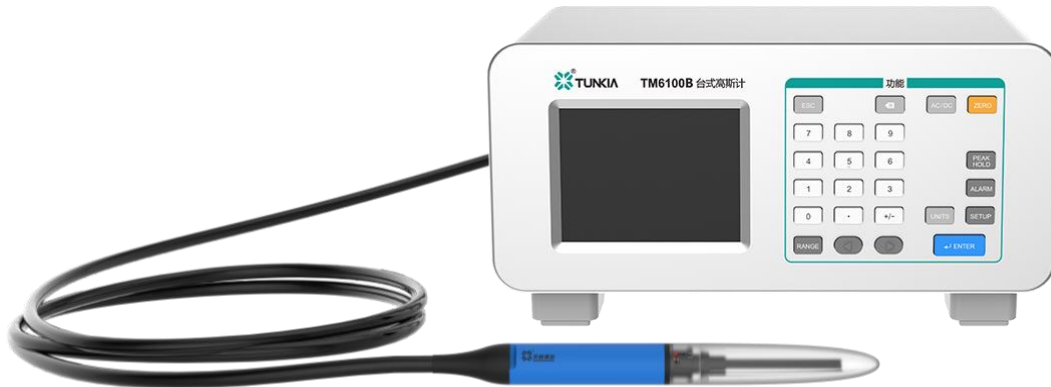


# TM6100 Gauss-Meter



## 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


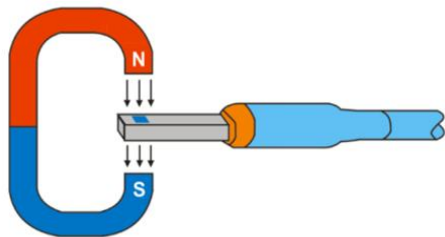


- Range: 2 mT ~ 3000 m T.
- Accuracy: class 0.2 or 0.5.
- Optional AC measurement mode.
- Unit switch: G, mT, A /m, Oe.
- N/S and +/- polarity display.
- Alarm of exceeding the upper / lower limit.
- Max. hold function.
- One-key clear function.
- Measuring parameter correction.
- Radial and axial Hall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

### 3. Application



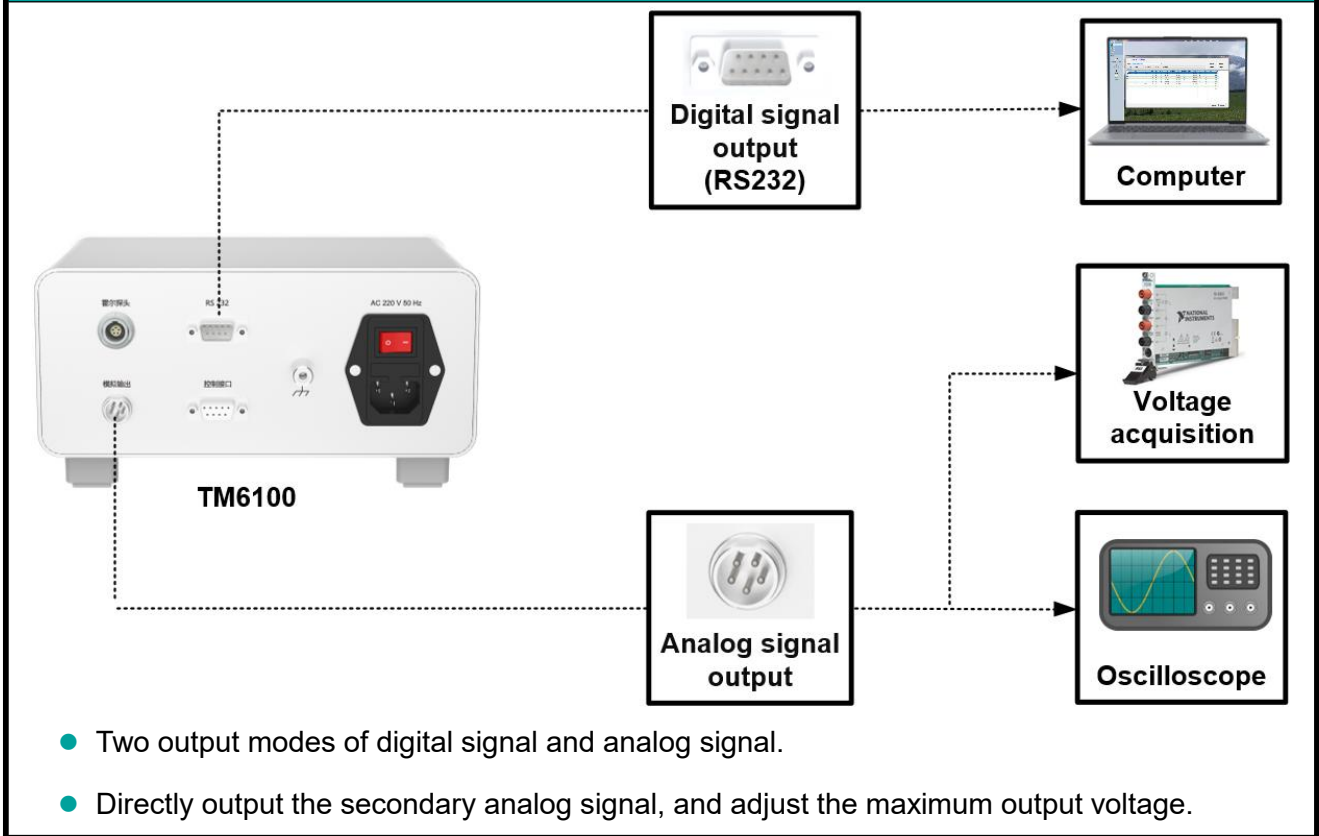
### 4. Features

☆ Optional Radial or Axial Hall Probe

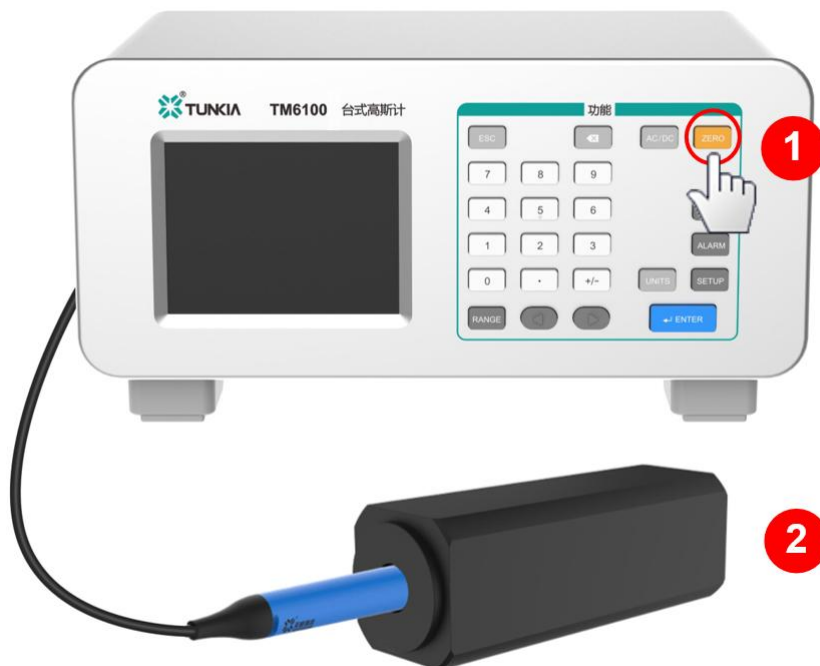
<p>Radial Hall Probe</p>		
<p>Axial Hall Probe</p>		

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

☆ Digital and Analog Signal Output



☆ One-key Clear Function/ Zero Drift Calibration



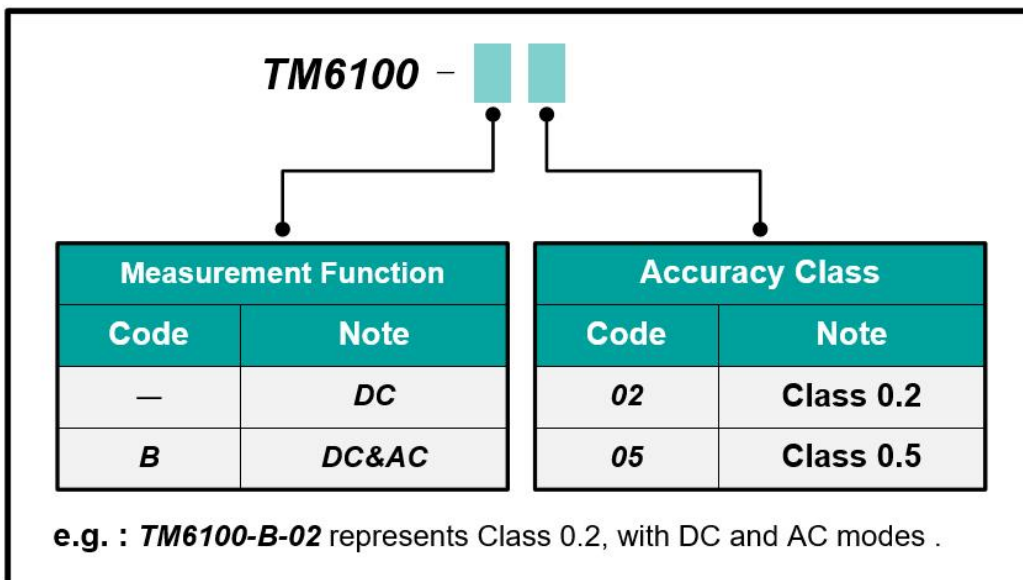
**Zero drift calibration operation**

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

## 5. Specifications

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



## 6. Ordering Information



## 7. General Specifications

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