

TM6160B AC/DC Tesla Meter



1 Summary

The **TM6160B** is a versatile AC and DC Teslameter with a maximum magnetic field of 3 T. It can directly measure the DC magnetic field generated by the magnetic field generator, and the space AC magnetic field. It is also suitable for the magnetic field measurement in the impact test of the **OIML R46**.

2. Features

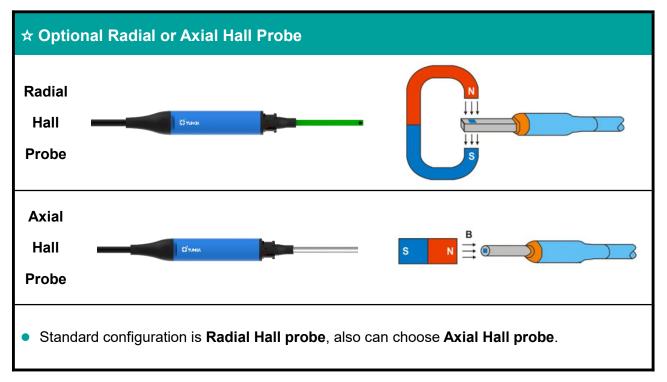
- DC and AC measurement modes.
- Measure medium and high DC magnetic fields with a Hall probe.
- Measure low AC magnetic fields with a coil probe.
- Data statistics, stability analysis functions.
- Unit switch: G, mT, Oe, A/m.
- +/- polarity display.
- Alarm of exceeding the upper / lower limit.
- Set magnetic field integration period.
- Digital and analog signal output.
- LCD touch screen.



3. Application

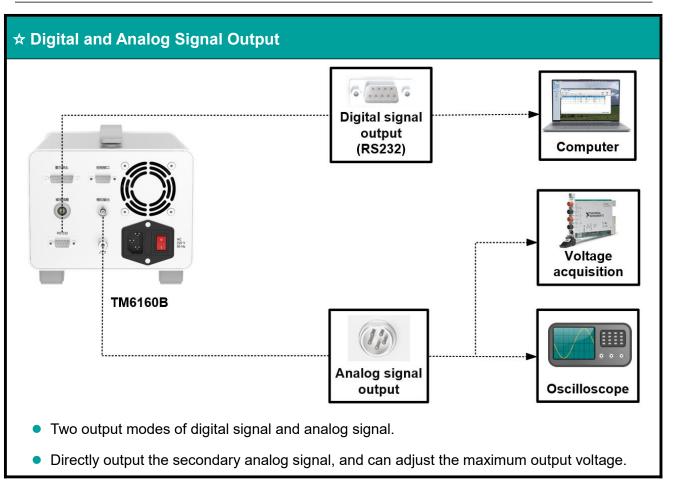


4. Features



Tunkia Co., Ltd. 领略前沿科技·创新电磁测量







★ One-key Clear Function/ Zero Drift Calibration					
Checkey Clear Function/Zero Dnit Calibration Image: Clear Function/Zero Dnit Calibration Operation					
	Zero Drift Calibration Operation				
NO.	Zero Drift Calibration Operation				
NO. 1	Function Description				
	Function Description One-key clear function: eliminate the influence of zero drift on the measurement				
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1	Function Description One-key clear function: eliminate the influence of zero drift on the measurement before measuring. before measuring. Magnetic shielding cavity (optional): • Realize the calibration of the zero drift. • Can completely remove the influence of the earth's magnetic field with the				





5. Specifications

5.1 Coil Probe

Range	10 µT	100 µT	1 mT
Resolution	1 nT	10 nT	100 nT
Accuracy	± 0.2 μT	± 2 μT	± 20 μT
Measuring Range	1 µT ~ 1 mT		
Frequency Range	45 Hz to 65 Hz		
Display Digits	5		

5.2 Hall Probe

Range		3 mT	30 mT	300 mT	3000 mT ^②	
Resolution		0.1 µT	1 µT	10 µT	100 µT	
Accuracy	DC	1.0% + 0.05	1.0% + 0.1	0.5% + 1	0.2% + 2	
±(ppm of reading + ppm of range) ^①	AC	2% + 0.15	2% + 0.2	1% + 1	1% + 2	
Measuring Range		0.3mT ~ 3T				
Frequency Range		DC to 1kHz				
Display Digits		5				
Remark		 (ppm = parts per million) (e.g., 10ppm = 0.001%) 2 Actual calibration only covers up to 2.5 T 				





6. General Specifications

Power Supply	AC (220 ± 22) V, (50 ± 2) Hz		
Temperature Performance	Operating temperature: 0°C~50°C		
Temperature Performance	Storage temperature: -20°C ~ 70°C		
Humidity Derformence	Operating humidity: 40% ~ 80 % R·H, non-condensing		
Humidity Performance	Storage humidity: < 80% RH, non-condensing		
Altitude	< 3000 m		
Weight	About 5 kg		
Interface	RS232, Hall probe input, coil input interface		
Dimensions	185 mm (W) × 280 mm (D) × 170 mm (H)		

7. Probe Selection

Serial number	Picture	Name	Specification	Quantity	Remark
1	0	TM1100 Hall Probe	Radial	1	Standard Accessory
2	0	TM1110 Hall Probe	Axial	1	Optional
Note:	The users sho	ould indicate the pro	be in the order contract		