

TM7500 Flux Meter



1. Summary

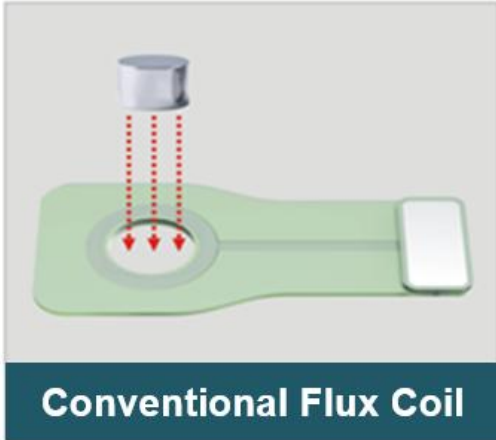
The **TM7500** is a high-precision magnetic flux measuring instrument, designed with a high-speed microprocessor and a low-drift electronic integrator. It's applied for measuring the magnetic flux Φ of space magnetic fields or permanent magnets with types of coils.

2. Features

- Range: 0.2 mWb ~ 2 Wb.
- Accuracy: class 0.2 or 0.5.
- Drift after zeroing $\leq 1 \mu\text{Wb}/\text{min}$.
- 5-digits display, minimum resolution 0.1 μWb .
- Unit switch: Wb, mWb, Vs, mVs, Mx.
- Maximum hold function.
- Alarm of exceeding the upper / lower limit.
- One-key reset and zero drift.
- Test parameter correction.
- Touch screen and button operation.
- Digital and analog signal (option) output.
- Supporting various of measuring coils.
- Small size, light weight.

3. Coil for Measurement

☆ Various Measurement Coils



Conventional Flux Coil



Skateboard Coil



Helmholtz Coil



Stator Coil

- Conventional Flux Coil: Applied for measuring the magnetic flux of a single sample.
- Skateboard Coil: Applied for testing batch samples on the production line.
- Helmholtz Coil: Applied to the magnetic moment of the sample.
- Stator Coil: Applied for fast measurement of the magnetic flux of the stator core.
- **Remark: The above coils are all options and can be customized.**

4. Specifications

Range	2 mWb	20 mWb	200 mWb	2 Wb
Resolution	0.1 μ Wb	1 μ Wb	10 μ Wb	0.1 mWb
Measuring Range	0.2 mWb~2 Wb			
Accuracy	Class 0.5	$\pm(0.5\%*RD^{\text{①}} + 10 \mu\text{Wb})$		
	Class 0.2	$\pm(0.2\%*RD^{\text{①}} + 10 \mu\text{Wb})$		
Zero Drift	Max(1 μ Wb/min or 0.05%*RG ^② /min)			
Analog Output (option)	0~ \pm 5 V or 4~20 mA			
Remark	① RD is the reading value, ② RG is the range value			

5. General Specifications

Power Supply	AC (220 \pm 22) V, (50 \pm 2) Hz
Temperature Performance	Operating temperature:0°C~40°C Storage temperature:-20°C~70°C
Humidity Performance	Working humidity:40%~85% R·H, non-condensing Storage humidity:< 95% R·H, non-condensing
Weight	About 5 kg
Interface	Hall probe input, RS232, Analog output interface
Dimensions	225 mm(W) ×295 mm(D) × 135 mm(H)

6. Ordering Information

