TM7100 Handheld Flux Meter

1. Summary

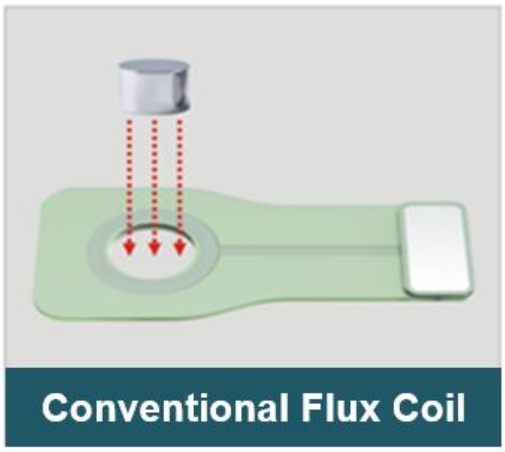
The **TM7100** is a portable measuring instrument, designed with a high speed microprocessor and a low drift electronic integrator. It's applied for measuring spatial magnetic field or permanent magnet flux **Φ** with types of coils.

2. Features

- Range:0.2 mWb～2 Wb.
- Accuracy: class1 or 2.
- Drift after zeroing ≤ 2 μWb/min
- 4-digits display, minimum resolution 1 μWb
- Unit switch: mWb, Mx
- Maximum hold function
- One-key reset and zero drift
- Display support backlight and battery power.
- Lithium battery power supply.
- Small size, light weight.
- Support various of measuring coil.

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		1 μWb	10 μWb	0.1 mWb	1 mWb
Measuring Range		0.2 mWb～2 Wb			
Accuracy	Class 1	±(1%*RD + 10 μWb)			
	Class 2	±(2%*RD + 10 μWb)			
Zero Drift		Max(2 μWb/min, 0.05%*RG ②/min)			
Remark		① RD is the reading value，② RG is the range value			

5. General Specifications

Power Supply	Lithium battery
Temperature Performance	Operating temperature:0°C～45°C Storage temperature:-20°C～70°C
Humidity Performance	Working humidity: 20%～80% R·H, Non-condensing Storage humidity: < 85% R·H, Non-condensing
Weight	About 350 g
Interface	Magnetic flux coil input, USB interface
Dimensions	90 mm(W) × 40 mm(D) × 165 mm(H)

6. Ordering Information

TM7100 – ■

Accuracy Class	
Code	Note
1	Class 1
2	Class 2

e.g. : ***TM7100-1*** represents Class 1.

7. Coil Selection

Serial Number	Picture	Name	Specification	Quantity	Remark
1		TM1410 Magnetic Flux Measurement Coil	Conventional Flux Coil	1	Optional Accessory
2		TM1420 Magnetic Flux Measurement Coil	Skateboard Coil	1	Optional Accessory
3		TM1430 Magnetic Flux Measurement Coil	Helmholtz Coil	1	Optional Accessory
4		TM1440 Magnetic Flux Measurement Coil	Stator Coil	1	Optional Accessory

Note: The above accessories need to be purchased separately and indicated in the order contract.