

Model **TM**

**TESLA METER**

Meter in compliance with New Measurement Act in Japan

## Significant improvement of performance while keeping usability of TM-701! New industry standard of handy type

3T (30 kG) supported



TM-801



AC adapter connection port



USB cable connection port

The Tesla Meter is a practical, handy type Gauss meter having digital display that has been developed based on KANETEC's long experience and achievements in the manufacture of magnetism-applied products. To satisfy the user's needs, this meter has been designed for easy use by anyone by incorporating frequently used functions only.

**[Application]**

- Measurement of residual magnetism in machined workpieces.
- Measurement of magnetic flux density in magnetism-applied products.
- Measurement of magnetic flux density of motors.
- Measurement of properties of magnetic materials.

**[Features]**

- A wide measuring range from 0 to 3000 mT. (DC)
- In addition to DC magnetic flux density, AC magnetic flux density can be measured.
- The high resolution measuring mode ensures highly accurate measurement. (Resolution 0.01 mT = 0.1 G)
- The use of sheet keys ensures high dustproof performance.
- The auto power off function prevents useless consumption of the battery.
- When the probe has been worn out, it can be replaced with a new one without troublesome calibration. (Optional)

### Featuring 10 points of TM-801 (compared with TM-701)

#### Wider measuring range

- High resolution mode accuracy in measurement of DC magnetic flux density improved.
- Frequency covering range in measurement of AC magnetic flux density expanded. (40 - 500 Hz)

#### Max. 160 hours of continuous operation and high-speed sampling

- Sampling speed in HOLD mode increased by 1.5 times.
- Continuous operation time by use of a battery improved by 20% (130 hours → 160 hours).
- 3-way power supply usable: battery, AC adapter and USB feed.

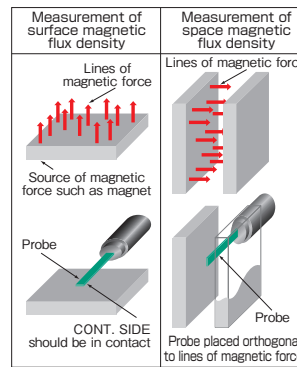
#### PC operation simpler and more useful

- Digital output of measured data to PC by use of USB.
- Measurement commands controllable from PC by use of USB.
- PC free sample software renewed completely.

#### Much safer

- Exclusively designed for mT\* indication and in compliance with Article 9 of the Measurement Act in Japan.
- "MADE IN JAPAN" Produced in Japan for sense of security.

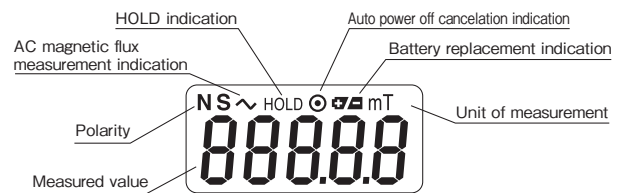
\*The Measurement Act in Japan does not permit the sale of measuring instruments with mT/G indication selection in Japan.



Simplified measuring method



PC free software renewed completely



Simple and easy-to-read display

### TM-801 Major Specifications

(1mT=10G)

Model	TM-801				Function	Zero reset	Polarity judgment	
Object to detect	DC magnetic flux density		AC magnetic flux density		Output	Max. detect value hold	Auto power off (Cancellable)	
	Polarities (N, S)		40 - 500 Hz			Digital output (USB) / Analog output		
Unit of measurement	mT only				Indication	Detected value	Digital	
Measurement range	0-3000.0mT					Polarity	Alphabets (N/S)	
Measurement mode	Measurement mode	Measuring range	Resolution	Indication accuracy*1	Operating temperature	0-+40°C (104° F)		
						DC × 1*	0- 200.0 mT	0.1 mT
Measuring range	Resolution	AC*	200.1-3000.0 mT		Dimensions	140 (5.51) mm high × 64 (2.51) mm wide × 30 (1.18) mm thick		
			DC × 10	0- 300.0mT		0.01mT	± (3% of rdg. + 5digit)	Mass
Indication accuracy	AC*	0- 150.0mT		± (5% of rdg. + 20digit)	Accessories	Probe, batteries, carrying case		
		150.1- 300.0 mT				Optional	Axial probe (TM-801 AXL) Reference magnetic field (TM-SMF, TM-AMF)	
		301.0- 150.0mT					1 mT	

\*The measuring range is automatically selected. Note: This meter is not designed for measurement of electromagnetic waves.

※1 The indication accuracy ±(5% of red. + 3 digits) is ±(5% of indicated value + 3 × resolution). "digit" = Resolution  
Example: Measurement mode DC × 1, indicated value 123.5 mT (Measuring range 0 - 200 mT, resolution 0.1 mT)  
±(123.5 × 0.05 + 3 × 0.1) = ±6.475 mT ≈ ±6.5 mT Accuracy range is 117.0 - 130.0 mT