

FOR YOUR BEST QUALITY  
CONTROL WITH THE ADVANCED  
MEASURING TOOL



Industry Standard for handheld devices

# TESLA METER TM-801

**NEW!**



**Large improvement of performance! And keeping the usability of TM-701!**

We have sold 15,000 pcs. of Tesla Meter TM-701 for about 6 years. We studied the demand of customers in those 6 years and refined it. Tesla Meter TM-801 is following TM-701 with major improvements.

## Specifications and main features (for the comparison with previous model TM-701.)

### The wide expanded range of measuring!

- Mode Accuracy of high resolution for measurement on DC magnetic flux density, is now improved.
- Range covering frequency for measuring AC magnetic flux density is expanded.(40 ~ 500Hz)

### Max.160 hours of operating time & high speed sampling!

- Sampling speed is improved 1.5 times when measuring in the hold mode.
- Measuring time increases 20% for continuous operation with alkali batteries.
- Tesla Meter can be operated with batteries, chargeable batteries and AC power supply.

### Simple operation with your PC!

- Measured data is now read by your computer with outer digital output though USB.
- New free sample software is newly produced to respond with Windows XP/7/8.



## [Application]

- Measurement of residual magnetism in machined parts, in stamped parts, and in demagnetized parts.
- Measurement of magnetic flux in magnets and magnetism applied products.
- Measurement of magnetic flux of motors.
- Measurement of properties of magnetic materials.

## Reliability

- Measured data is now "mT" exclusively in compliance with the unit specified by the Measurement Law.



INPUT TERMINAL FOR  
AC POWER SUPPLY



INPUT TERMINAL FOR USB

Please refer to the back side...

# TM-801 Features

[mm(in)]

Model	<b>TM-801</b>				Function	Zero reset	Polarity indication
						Max. detect value hold	Auto power off (can be canceled)
Detecting Contents	DC magnetic flux density		AC magnetic flux density		Output	USB communication port /output(analog)	
	Polarities (N, S)		(40~500Hz)				
Measuring	mT				Mode	Detection value	Numeric value (digital)
						Polarity	Alphabets (N/S)
Indication Range	0—3000.0mT				Operating Temperature	0—+40°C (104° F)	
Measuring Mode	Measuring mode	Measuring range	Resolution	Indication accuracy	Power Source	Battery SUM-3(1.5 V) × 4 pieces DC5-6V adapter input/ USB	
Measuring Range	DC × 1*	0— 200.0 mT	0.1 mT	± (5% of rdg.+ 3digit)	Dimensions	Height 140 (5.51) × width 64 (2.51) × thickness 30 (1.18)	
		200.1—3000.0 mT	1 mT	± (5% of rdg.+10digit)			
Resolution	DC × 10	0— 300.00mT	0.01mT	± (3% of rdg.+ 5digit)	Mass	Approx. 250 g/0.55 lb (including batteries and probe)	
		0— 150.00mT	0.01mT		Accessories	Probe, batteries and carrying case	
Indication Accuracy	AC*	150.1— 300.0 mT	0.1 mT	± (5% of rdg.+20digit)	Option	Axial probe (TM-801AXL)	
		301.0—1500.00mT	1 mT			Reference magnetic field for Tesla Meter(TM-SMF)	

※ The measuring ranges are automatically selected.

Note: This product is not designed for measurement of electromagnetic waves.

## Option / Accessories

### Model TM MEASUREMENT PROBE FOR TESLA METER



● A probe dedicated to TM-801. Please keep this probe as a spare; it can be replaced without troublesome calibration. In addition to the standard PRB (transverse type), an axial type (AXL) capable of measurement in the vertical direction and having higher durability is optionally available.

Model	Applicable Model	Tip Dimensions	Cord Length	Mass
TM-801PRB	※	(T)10(0.03)×(W)35(0.13)×(L)65(2.55)	1000 (39.3)	50g/0.11 lb (Including probe cap)
TM-801AXL	Only for TM-801	φ13 (0.51) × 55 (2.16)		

※ Can be used with Kanetec,s conventional TM-501, TM601 and TM-701.

### Model TM-SMF REFERENCE MAGNETIC FIELD FOR TESLA METER

For calibration or dailycheck of the Tesla meter



[Application]

- Daily check of the Tesla meter.
- Calibration of the Tesla meter.

[Features]

- The closed circuit construction employing a permanent magnet that causes less magnetic force leak.
- Small and light weight.
- Usable with Kanetec TM-201 and above.

[mm(in)]

Model	Magnetic Flux Density*	Dimensions		Mass
		Frame Dia.	Height	
TM-SMF- 003	3mT		50(1.96)	Approx. 0.2kg/0.44 lb
TM-SMF- 050	50mT	φ43(1.69)	40(1.57)	
TM-SMF- 300	300mT		30(1.18)	Approx. 0.1kg/0.22 lb
TM-SMF-1000	1000mT	φ73(2.87)	74(2.91)	Approx. 2.0kg/4.4 lb

TM-SMF-050

※ Can be used with Kanetec,s conventional TM-501, TM-601 and TM-701.

※ In case reference magnetic field corresponding to Axial type probe TM-801AXL is required, please consult with us.

### Model PC MAGNETIC POLARITY CHECKER



## Easy check of residual magnetic flux density, and N or S magnet polarity!

[Application]

In addition to selecting magnetic material, or to confirm the magnetic pole when magnet is installed, it can be used as an easy checker for residual magnetic flux density level on processed products.

[Features]

- Card size thickness, 6mm only. Convenient to have with you.

- Audio tone and LED lights

N Pole (red LED) tone sounds in a short continuous note.

S Pole (blue LED) tone sounds in a longer continuous note

- It detects magnetic flux density of more than 1mT so it can be used for simple confirmation of demagnetized results.

※ for precise measurement of magnetic flux density, please use TM-801 Tesla Meter

[mm(in)]

Model	Dimensions	Distinction Accuracy	Indication Lamp	Battery	Mass	Accessories
PC-10	55(2.16)×85(3.34)×6(0.23)	N/S Approx. 1mT or more	N pole (Red LED) S pole (Blue LED)	CR2025 Button battery (included)	25g/0.055 lb	soft case

※ The products listed in this catalog are subject to change in models, appearance and specifications without notice.



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