**Model TM TESLA METER**

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

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 machine components.
- 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)

**Features of TM-801EXP (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.

**Specifications**

<table>
<thead>
<tr>
<th>Function</th>
<th>Zero reset</th>
<th>Polarity judgment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td>Digital output (USB) / Analog output</td>
<td></td>
</tr>
<tr>
<td>Indication</td>
<td>Detected value</td>
<td>Digital</td>
</tr>
<tr>
<td>Polarity</td>
<td>Alphabets (N/S)</td>
<td></td>
</tr>
</tbody>
</table>

**Power source**
- Battery: Size AA (1.5 V) × 4 pieces
- External power source 5 – 6 VDC (AC adapter/USB feed)

**Dimensions**
140.5 (5.1 mm) high × 64 (2.5) mm wide × 30 (1.2) mm thick

**Mass**
Approx. 250 g (0.55 lb (batteries & probe included))

**Accessories**
Probe, batteries, carrying case

**Optional**
Axial probe (TM-801 AX1)
Reference magnetic field (TM-SMF, TM-AMF)

**Operating temperature**
0 – +40°C (104 °F)

**AC adapter connection port**

**USB cable connection port**

**Simplified measuring method**

A calibration certificate (manufacturer calibration or JCSS calibration) is issued upon request. (Charged)
**TM / TM-SMF / TM-AMF / PC**

**Model TM**

**PROBE FOR TESLA METER**

![Image of TM-801PRB probe]

Model: TM-801PRB (Optional)

**Object to measure**

(An example of usage of TM-801 AXL)

**Application**

A measurement probe for TM-801.

**Features**

- 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 vertical measurement and having high durability is optionally available.

**Model**

<table>
<thead>
<tr>
<th>Model</th>
<th>Applicable Meter</th>
<th>Tip Dimensions</th>
<th>Cord Length</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM-801PRB</td>
<td>TM-801</td>
<td>(T: 1.0 (0.03) × (W): 3.5 (0.13) × (L): 65 (2.55))</td>
<td>1000 (39.4)</td>
<td>50g/1.1 lb (including probe cap)</td>
</tr>
<tr>
<td>TM-801AXL</td>
<td>TM-801</td>
<td>(T: 13 (0.51) × 55 (2.16))</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Model TM-SMF / TM-AMF**

**REFERENCE MAGNETIC FIELD FOR TESLA METER**

For calibration and daily check of Tesla Meter!

**For standard probe**

Applicable probe: KANETEC TM-201 and later models

**Application**

- Daily check of the Tesla Meter.
- When a calibration certificate of the reference magnetic field is obtained, the calibration of the Tesla Meter becomes economical.

**Features**

- The closed circuit construction employing a permanent magnet that causes less magnetic force leak is employed.
- Small and light weight.

**Model**

<table>
<thead>
<tr>
<th>Model</th>
<th>Magnetic Flux Density</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM-SMF-003</td>
<td>0.003T (30G)</td>
<td>ø43 (1.69)</td>
<td>50 (1.96) +/- 10%</td>
</tr>
<tr>
<td>TM-SMF-050</td>
<td>0.05T (500G)</td>
<td>ø43 (1.69)</td>
<td>40 (1.57) +/- 10%</td>
</tr>
<tr>
<td>TM-SMF-300</td>
<td>0.3T (3000G)</td>
<td>ø43 (1.69)</td>
<td>30 (1.18) +/- 10%</td>
</tr>
<tr>
<td>TM-SMF-1000</td>
<td>1T (10000G)</td>
<td>ø73 (2.87)</td>
<td>74 (2.91) +/- 10%</td>
</tr>
</tbody>
</table>

**For axial type probe**

Applicable probe: KANETEC TM-601 AXL, TM-701 AXL, TM-801 AXL

**Model PC**

**MAGNETIC POLARITY CHECKER**

**Simplified checking of residual magnetic flux density and N/S polarity judgment!**

**Application**

In addition to screening magnetic material or checking the polarity when a magnet is installed, this can be used as a simplified checker of residual magnetic flux density level of processed products.

**Features**

- Card size thickness, 6 mm only, for convenience of carrying.
- The results of polarity judgment are indicated by both light and sound or may be indicated by sound only.
  - N Pole (red LED): Sound in short intervals.
  - S Pole (blue LED): Sound in long intervals
- Since this checker detects a magnetic flux density of 1 mT (10 G) or over, it can be used for checking a demagnetized state in a simplified manner.
- For precise measurement of the magnetic flux density, please use the Tesla Meter.

**Model**

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Judging Capacity</th>
<th>Indication Lamp</th>
<th>Battery</th>
<th>Mass</th>
<th>Accessory</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC-10</td>
<td>55 (2.16) × 85 (3.341) × 16 (0.63)</td>
<td>N/S approx. 1 mT (10 G) or over</td>
<td>N pole (red LED) S pole (blue LED)</td>
<td>CR2025 Button battery (included)</td>
<td>25g/0.89 oz</td>
<td>Exclusive soft case</td>
</tr>
</tbody>
</table>