Digital TENSION METERS

DTMB
8 Tension Ranges
0.1–200.0 g up to 2.00–20.00 Kg

The new CHECK•LINE DTMB Digital Tension Meter uses precision strain gauge sensing to provide the highest accuracy & repeatability.

Its rugged, die-cast aluminum housing and surface-mount electronics make it especially resistant to damage, even in the toughest production environments.

FEATURES

- Displays last, maximum, minimum & peak tension values
- Thickness Compensator and Field Adjustment permit fine tuning of the calibration for the highest possible accuracy on different process materials
- Calibration is available in grams or pounds
- Powered by 4 AA batteries
- Optional NIST Calibration Certification
- Tensions are sampled at 62.5 times/sec & averaged over a user-selected interval of 0.5, 1, 2 or 4 seconds
- Hard-coated, V-grooved aluminum rollers rated for speeds up to 2000 m/min or, optionally, 5000 m/min
### Specifications

**Measuring Principle**
- Strain gauge

**Measuring Frequency**
- 16 msec (62.5 samples/sec)

**Deflection of Sensing Roller (max.)**
- 0.2 mm

**Overload Capacity**
- 200% of Full Scale

**Temperature Coefficient**
- Zero: less than ±0.3% FS/°C
- Span: less than ±0.01% FS/°C

**Display**
- 4-Digit LCD, 12 mm high

**Display Update Rate**
- 0.5, 1.0, 2.0 or 4.0 seconds, dip-switch selectable

**Memory System**
- Last, maximum, minimum and peak values

**Overrange Indicator**
- Value will blink on/off, then “FFFF”

**Field Calibration Adjustment**
- ± 7 steps, 1.5% per step

**Battery Type**
- Four (4) 1.5 V AA (included)

**Battery Life**
- 20 hours, continuous use

**Auto Power Off**
- After 2 minutes of non-use

**Roller Material** (standard)
- Hard-coated Aluminum

**Roller Material** (optional)
- Hardened Steel (ST)
- Ceramic (CE)
- Plastic (PL)

**Maximum Speed** (standard)
- 2000 m/min
- 5000 m/min

**Housing**
- Die-cast Aluminum

**Dimensions**
- 2.95” W x 10.83” H x 1.77” D (75 x 275 x 45 mm)

**Weight (approximate)**
- 1.43 lbs. (650 g)

**Operating Temperature**
- 32 to 132 °F (0 to 45 °C)

**Accessories Included**
- 4 AA batteries and operating instruction guide, all in a fitted, hard-plastic carrying case

**Warranty**
- One year

### Model Data

<table>
<thead>
<tr>
<th>Model</th>
<th>DTMB-200</th>
<th>DTMB-500</th>
<th>DTMB-1K</th>
<th>DTMB-2K</th>
<th>DTMB-2.5KB</th>
<th>DTMB-5KB</th>
<th>DTMB-10KB</th>
<th>DTMB-20KB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tension Range (grams)</td>
<td>0.1–200.0</td>
<td>0.1–500.0</td>
<td>50–1000</td>
<td>200–2000</td>
<td>250–2500</td>
<td>500–5000</td>
<td>1.00–10.00 Kg</td>
<td>2.00–20.00 Kg</td>
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<tr>
<td>Accuracy</td>
<td>± 1.0% or better</td>
<td>± 1.5% or better</td>
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<tr>
<td>Outer Roller Distance (c:c)</td>
<td>38 mm</td>
<td>38 mm</td>
<td>38 mm</td>
<td>38 mm</td>
<td>100 mm</td>
<td>100 mm</td>
<td>100 mm</td>
<td>200 mm</td>
</tr>
</tbody>
</table>

### Dimensions

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Dimensions

Outer roller spacing c:c
2.5KB–10KB  100 mm
20KB  200 mm

All dimensions in mm
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**For additional information or to place an order**

**CALL TOLL FREE**

**1-800-645-4330**

CHECK•LINE is a registered trademark of ELECTROMATIC Equipment Company Inc.

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Specifications subject to change without notice.