

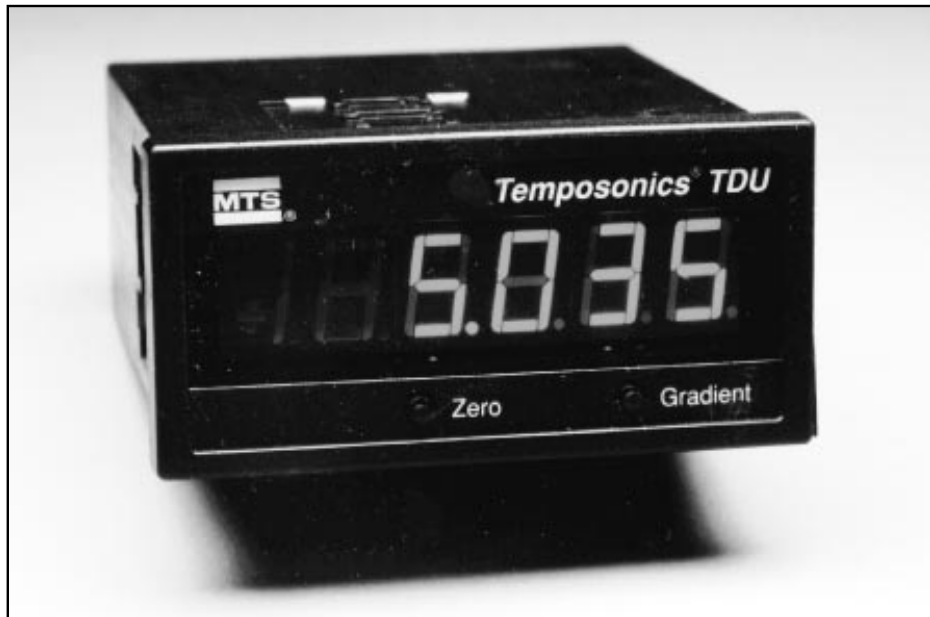


TEMPOSONICS®

## Temposonics® Display Unit (TDU) Model TDU-100

**Features:**

- **Zero Reset (along entire stroke)**
- **Scaled Outputs**
  - Inches
  - Millimeters
  - Centimeters
  - Meters
- **Compatible with Temposonics II & Temposonics LP**
- **Large 5 1/4 digit LED characters**



The Temposonics Display Unit (TDU) provides a large, clear, LED readout of accurate measurement data. The TDU is ideal for use in applications where immediate visual verification of position is required, such as plastic and woodworking applications.

The TDU is designed to work with both the Temposonics II and Temposonics LP transducers with Start/Stop output. Together, the TDU and Temposonics transducers provide a highly accurate, reliable, and easy to use position display system.

If you want to find out more about the TDU or any of the other Temposonics products, please call MTS Sensors Division at (800) 633-7609.

# Specifications

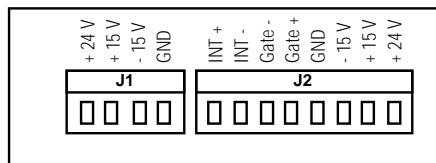
## Temposonics Display Unit (Model TDU-100)

Parameter	Specifications
Supply Voltage:	<ul style="list-style-type: none"> <li>w/Temposonics II: <math>\pm 15</math> Vdc</li> <li>w/Temposonics LP: + 20 to 24 Vdc</li> </ul>
Sensor Product Life:	<ul style="list-style-type: none"> <li>Active Sensing Element - 4 x 10<sup>6</sup> MTBF</li> </ul>
Display Electronics Enclosure:	<ul style="list-style-type: none"> <li>Drip, dust and rust resistant</li> </ul>
Non Linearity (transducer):	<ul style="list-style-type: none"> <li>Temposonics II: <math>&lt; \pm 0.05\%</math> F.S. or <math>\pm 0.0001</math> inch (<math>\pm 0.0025</math> mm)*</li> <li>Temposonics LP: <math>\pm 0.1\%</math> of F.S., minimum of <math>\pm 0.004</math> in. (0.10 mm)*</li> </ul>
Repeatability (transducer):	<ul style="list-style-type: none"> <li><math>\pm 0.001\%</math> of full stroke, or <math>\pm 0.0001</math> in. (<math>\pm 0.0025</math> mm)</li> </ul>
Measuring Range (transducer):	<ul style="list-style-type: none"> <li>Temposonics II: Up to 25 feet</li> <li>Temposonics LP: Up to 48 inches</li> </ul>
Operating Temperature:	<ul style="list-style-type: none"> <li>32 to 158°F (0 to 70°C)</li> </ul>
Output:	<ul style="list-style-type: none"> <li>5 1/4 digit LED display; Outputs selected via internal dip switch</li> </ul>
Inches: 199.995	<ul style="list-style-type: none"> <li>0.005 in.</li> </ul>
Millimeters: 5080.00	<ul style="list-style-type: none"> <li>0.1 mm</li> </ul>
Centimeters: 508.00	<ul style="list-style-type: none"> <li>0.01 cm</li> </ul>
Meters: 5.0800	<ul style="list-style-type: none"> <li>0.0001 m</li> </ul>
Zero Reset:	<ul style="list-style-type: none"> <li>Available on front of display panel</li> </ul>

Specifications are subject to change without notice. Contact MTS for verification of specifications critical to your needs.

\* Measurements are independent Best Straight Line (BSL)

## Connections



For more detailed literature on Temposonics products, or to talk with an MTS representative, call toll free.

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Temposonics is a registered trademark of MTS Systems Corporation  
Temposonics products are covered by US patents 3,898,555; 4,726,226; 4,721,902; 4,298,861; 4,952,873 and additional patents pending.