Features
- May be left on through specimen failure.
- Self-supporting on specimen
- Improved accuracy, resolution, and noise rejection at high temperature
- Reduced size and weight, and improved high frequency performance
- All standard models are suitable for cyclic testing, >25 Hz is typical.
- Digital controller and power supply included. Provides high level DC voltage output with low noise. Easily interfaced to test controllers, data acquisition boards and chart recorders.
- Includes high speed analog and digital outputs
- Intuitive web-based user interface for setup, calibration, and data acquisition
- Built-in calibration reference and auto-zero features
- Multiple extensometer calibration files may be loaded for use with one controller
- Multiple temperature-specific calibrations may be stored
- Selectable analog and digital filter options from 2 Hz to 3 kHz
- Ships fully calibrated with electronics (traceable to NPL (UK)) with user specified voltage output
- Mechanical over-travel protection
- Suitable for measuring Poisson’s ratio per ASTM E132 with most materials and specimens
- Durable stainless steel knife edges
- Includes high quality foam lined case
- Rugged, dual flexure design for strength and improved performance. The next-generation design enables cyclic testing at much higher frequencies.

Specifications
- Analog Output: User specified, +/-5 VDC or +/-10 VDC typical, ±10 VDC rail
- Digital Output: 24 bit high speed Ethernet output with built-in web interface
- Linearity: 11 point linearization, ≤0.1% of full scale typical
- Resolution: <65 ppm (0.006%/FS) RMS at 4 kHz, <6 ppm (0.0006%/FS) at 100 Hz
- Cyclic Testing: >25 Hz typical
- Analog Filter: Selectable 100 Hz analog and 2 Hz-3 kHz digital filters
- Temperature Range: Ambient to 600 °C (1100 °F) typical
- Sensitivity (Ohm): <100 PPM/°C (0.1%/FS/°C) typical
- Sensor Cable: 2.5 ft (0.75 m) tri-axial high temperature cable, plus 5 ft (1.5 m) room temperature extension cable
- Operating Force: 1-2 kgf (30-60 oz) typical, depending on model
- Environment: Recommended for elevated temperature testing in dry air or some other gases

Options
- Reverse cable exit available
- Connectors to interface to nearly any brand test equipment
- Bulkhead adapters for vacuum chambers
- Dual-channel DT6229 controller
- Specialty knife edges (see page 106)

Ordering Information
Model 7675 Available Versions: Available standard measuring ranges are listed below. Other configurations may be available with special order; please contact Epsilon to discuss your requirements.

<table>
<thead>
<tr>
<th>Measuring Range (U.S.A)</th>
<th>Measuring Range (METRIC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>±0.05”</td>
<td>±1.2 mm</td>
</tr>
<tr>
<td>±0.10”</td>
<td>±2.5 mm</td>
</tr>
</tbody>
</table>

* Preferred configuration

Example: 7675-025M: ±2.5 mm measuring range

Visit our website at www.epsilontech.com
Contact us for your special testing requirements.