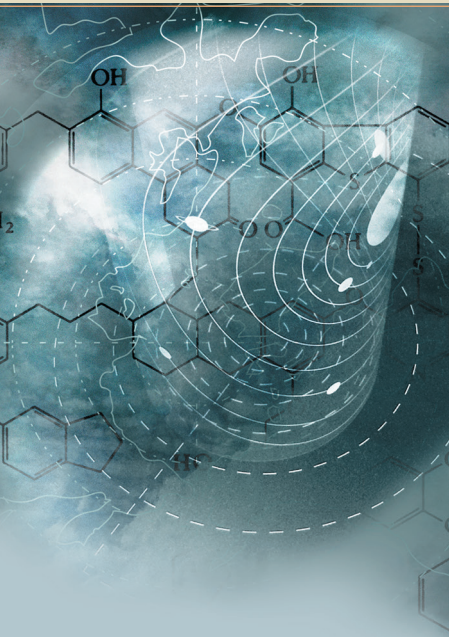




**Designed for plastics, rubber and elastomer testing, these extensometers have very long measuring ranges. Their unique design allows testing to failure and minimizes interaction with the sample.**

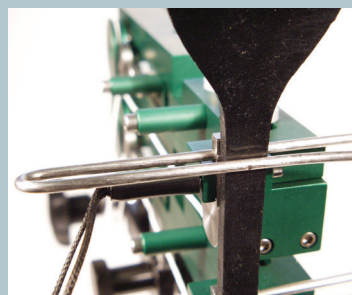


*Model 3800 with mounting stand*

The main body of this unique extensometer remains stationary during testing, held in position by the adjustable magnetic base included. Only the very light, small traveling heads move as the sample elongates during a test. These attach to the sample with small spring clips. Each head pulls a cord out from the extensometer as the head moves.

These models use high precision, low friction potentiometers, and, as a result, have a wide range of factory selectable outputs. The extensometer is driven by an excitation voltage and has output proportional to the input. They can be provided with high level outputs (approximately 2-8 VDC) or ones that mimic strain gaged devices (2-4 mV/V). When set to mimic strain gaged extensometers, the Model 3800 can be used with virtually any signal conditioning electronics designed for strain gaged sensors. The potentiometers employ a hybrid wire wound around conductive plastic, which provides excellent long term stability. The output from the extensometer is readily interfaced with most existing test controllers and may be directly input to data acquisition systems and chart recorders.

*Please let us know at the time of order what type of output and connector you require.*



*Specimen attachment with Model 3800*

 [See the Model 3800 extensometer videos](#)

## Features

- **May be left on through specimen failure.**
- The main body is stationary with only the lightweight traveling heads moving.
- Applicable for testing to ASTM D412.
- Comes with an adjustable magnetic base for easy mounting.
- Large measuring range to 500 mm (20 inches).
- Includes the Epsilon Shunt Calibration System (with units configured to mimic strain gaged sensors) for on-site electrical calibration.
- Includes high quality foam lined case.
- Low cost, high accuracy elastomer strain measurement.

## SPECIFICATIONS

*Accuracy:*  $\pm 1$  mm ( $\pm 0.040$  inches)  
*Resolution:* 0.2 mm (0.008 inches) for all measuring ranges  
*Temperature Range:*  $-40^{\circ}\text{C}$  to  $100^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $210^{\circ}\text{F}$ )  
*Operating Force:* <200 grams typical per head  
*Cable:* Integral, ultra-flexible cable, 2.5 m (8 ft) standard  
*Excitation:* 5 to 10 VDC recommended, 12 VDC or VAC max.  
*Output:* 2 to 4 mV/V, nominal; select at time of order

## OPTIONS

Adapter kits to change gauge lengths.  
 Connectors to interface to nearly any brand of test equipment.

## ORDERING INFORMATION

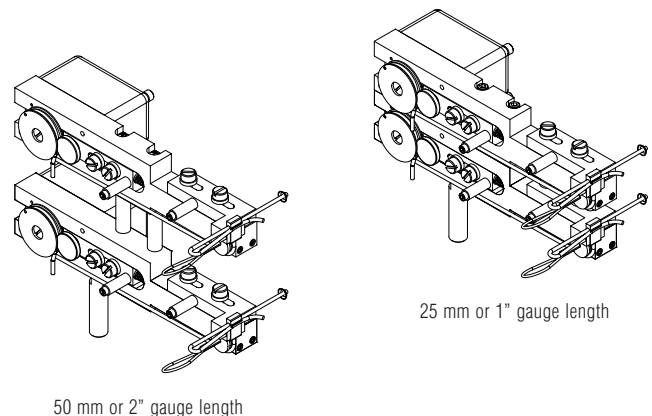
Model 3800 Available Versions: ANY combination of measuring ranges and gauge length listed below is available. Available in intermediate and larger gauge lengths on special order.

| Gauge Length |         | Measuring Range |         |
|--------------|---------|-----------------|---------|
| METRIC       |         | METRIC          |         |
| -020M        | 20.0 mm | -250M           | +250 mm |
| -025M        | 25.0 mm | -500M           | +500 mm |
| -050M        | 50.0 mm |                 |         |
| U.S.A.       |         | U.S.A.          |         |
| -0100        | 1.000"  | -100T           | +10.0"  |
| -0200        | 2.000"  | -200T           | +20.0"  |

**Model Number 3800-** \_\_\_\_\_ **-** \_\_\_\_\_

*Example: 3800-0100-100T: 1.0 inch gauge length, +10 inches measuring range (+1000% strain), temperature range of  $-40^{\circ}\text{F}$  to  $210^{\circ}\text{F}$*

Visit our website at [www.epsilontech.com](http://www.epsilontech.com)  
 Contact us for your special testing requirements.



MODEL 3800 EXAMPLES