



## Transverse (Diametral) Strain Gage Extensometers



**Figure 1.** Model 3575 transverse extensometer.

These extensometers are designed for general purpose transverse, or diametral, strain measurement on axially loaded specimens. This model, the model 3575, can be used simultaneously with the model 3542 axial extensometer.

The model 3575 is self supporting on the test specimen and will work on any width or diameter specimen from 0 to 1 inch (25mm). They are commonly used for measurement with anisotropic materials like many composites, and for sheet metal testing such as r-value determination. Most often they are used with other axial extensometers.

The units readily clip onto the sample and are held in place with an integral spring. Rounded contact edges maintain the position on the specimen. All are high accuracy strain gaged units.

### Features:

- Full bridge with 350 ohm strain gage design
- All models measure both positive and negative displacements
- Meets ASTM class B1 and ISO 9513, class 0.5 accuracy
- Rugged dual flexure design
- Self supporting on specimen
- Easy mounting on specimen with integral springs.

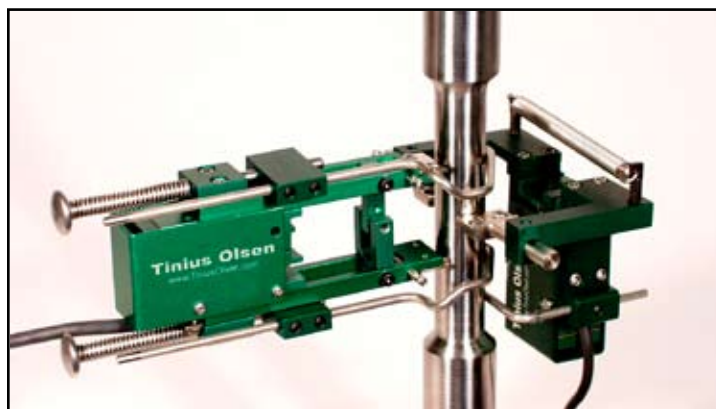
### Specifications

- Excitation:** 5 to 10 VDC recommended, 12 VDC or VAC max
- Output:** 2 to 4 mV/V nominal
- Linearity:** < 0.15% of full scale measuring range, depending on model
- Temp. Range:** -40 °C to +100 °C (-40 °F to 210 °F)
- Specimen Size:** up to 1 inch (25mm) diameter or width

### Options

- Shunt calibration module
- Specialty knife edges

**Figure 2.** Model 3575 transverse extensometer being used simultaneously with a model 3542 axial extensometer.



# Ordering Information

The model 3575 extensometer is available in a variety of combinations of measuring range and temperature range.

**Model No 3575 - - - - -**

-020T	±0.02"
-050T	±0.05"
-100T	±0.10"
-150T	±0.15"
-200T	±0.2"
OR	
-050M	±0.5mm
-100M	±1.0mm
-250M	±2.5mm
-300M	±3.0mm
-500M	±5.0mm

-LI	-265 to 100 deg C (-450 to 210 degF)
-ST	-40 to 100 degC (-40 to 210 degF)
-HT	-40 to 150 degC (-40 to 300 degF)



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