



3575 with ±1 mm measuring range.

Designed for general purpose transverse or diametral

strain measurement on axially loaded specimens. This

model may be used simultaneously with the Model

3542 axial extensometer.

Self-supporting on the test sample, these extensometers will work on any width or diameter specimen from 0 to 1 inch (25 mm). They are commonly used for measurement of Poisson's ratio, for transverse measurements with anisotropic materials like many composites and for sheet metal testing such as r-value determination. Most often they are used simultaneously with Epsilon's axial extensometers.

These units easily clip onto the sample, held in place with an integral spring. Rounded contact edges maintain the position on the specimen. All are high accuracy strain gaged units, compatible with most test controllers.



3575 with ±5 mm measuring range.



Special 3575 with 0.4 inch range.

**Sheet Metal r-Value Determination with Models 3575 and 3542.**

As shown in the photo, the Model 3575 may be used simultaneously with the Model 3542 axial extensometer to measure r-value. Many researchers are now using only this single lateral measurement for their tests, rather than the older method using three manual measurements.

An alternative unit with dual lateral measurements is the Model 3575AVG, which averages transverse readings over two locations. (See page 38.)



3575 transverse used simultaneously with 3542 axial model.

**Features**

- May be left on through specimen failure.
- Full bridge, 350 ohm strain gaged design for compatibility with nearly any test system.
- All models will measure both positive and negative displacements.
- All standard units have linearity readings of 0.20% or better.
- Includes high quality foam lined case and spare set of tool steel knife edges.
- Rugged, dual flexure design for strength and improved performance. Much stronger than single flexure designs, this also allows cyclic testing at higher frequencies.
- Easy to mount, with integral springs to keep the extensometer on the sample.
- Self-supporting on the specimen

**SPECIFICATIONS**

Excitation: 5 to 10 VDC recommended, 12 VDC or VAC max.

Output: 2 to 4 mV/V, depending on model

Linearity: ≤0.20% of full scale measuring range, depending on model

Temperature Range: Standard (-ST) is -40 °C to +100 °C (-40 °F to 210 °F)

Cable: Integral, ultra-flexible cable, 8 ft (2.5 m) standard

Specimen Size: Works with samples up to 1 inch (25 mm) width or diameter

**OPTIONS**

Connectors to interface to nearly any brand test equipment

Shunt calibration module (see page 96)

Specialty knife edges (see page 97)

**ORDERING INFORMATION**

Model 3575 Available Versions: ANY combination of measuring range and temperature range listed below is available.

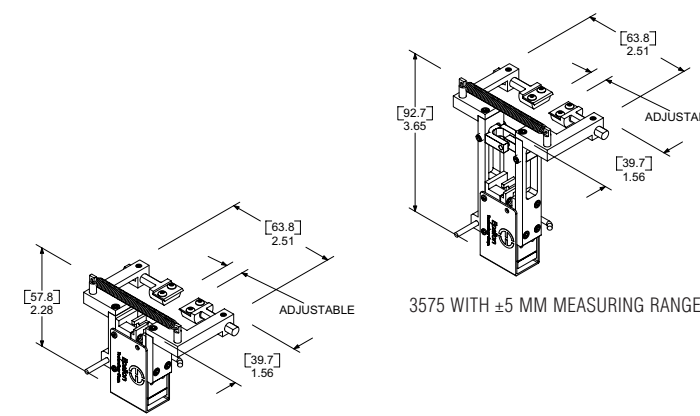
Measuring Range	
DESIGNATION	
-020T	±0.020"
-050T	±0.050"
-100T	±0.100"
-150T	±0.150"
-200T <sup>1</sup>	±0.200"
-050M	±0.5 mm
-100M	±1.0 mm
-250M	±2.5 mm
-300M	±3.0 mm
-500M <sup>1</sup>	±5.0 mm

Model Number 3575- \_\_\_\_\_ - \_\_\_\_\_

Temperature Ranges	
-LT	-265 °C to 100 °C (-450 °F to 210 °F)
-ST	-40 °C to 100 °C (-40 °F to 210 °F)
-HT1	-40 °C to 150 °C (-40 °F to 300 °F)
-HT2	-40 °C to 200 °C (-40 °F to 400 °F)
-LHT	-265 °C to 200 °C (-450 °F to 400 °F)

<sup>1</sup> Special order.

Example: 3575-050T-ST: ±0.050 inches measuring range, standard temperature option (-40 °F to 210 °F)



MOST MODEL 3575 VERSIONS

3575 WITH ±5 MM MEASURING RANGE

DIMENSIONS: [mm] inches

Contact Epsilon for your special testing requirements.