

## Transversal Extensometer Series 3575

The 3575 transverse extensometer is self-supporting on the specimen and well suited for measuring transverse or diametral strain on axially loaded specimens.

It is suitable for specimens of any diameter or width ranging from 0 to 25 mm.



This unit is 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.

The unit can be well suited to use along with the axial extensometer 3542.

The Model 3575 extensometer can be easily attached to the sample and its round contact edges can hold the specimen in one position. It is positioned in a place by means of an integral spring.

These units are high accuracy strain gaged devices that are compatible with any electronics suitable for strain

Single lateral measurement is widely being used for various tests instead of the traditional three manual measurement methods. The Model 3575AVG is an alternative unit performing dual lateral measurements to average the transverse readings from two locations.

**Features**

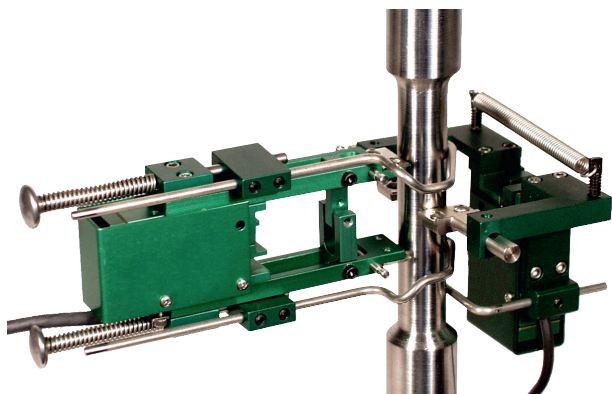
- May be left on through specimen failure
- Usable with wide range of specimen sized up to 25 mm
- Accurate strain gaged unit (full bridge, 350 ohm) with linearity 0.2% or better
- All models will measure both positive and negative displacements.
- Easy to mount, with integral springs to keep the extensometer on the sample.
- Self-supporting on specimen
- 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 operate and comfortable clamping
- Includes high quality foam lined case

**Specification:**

Excitation:	5 to 10 VDC recommended, 12 VDC or VAC max.
Output:	2 to 4 mV/V, nominal, 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, 2.5 m (8 ft) standard
Specimen Size:	Works with samples up to 25 mm (1 inch) width or diameter

**Note**

This extensometer can be used with 3542 axial clip-on extensometer.



Sheet Metal r-Value Determination with Models 3575 and 3542 The Model 3575 may be used simultaneously with a 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.

Technical Data

Model 3575 Available Versions: Any combination of measuring range and temperature range listed below is available.  
Other configurations may be available with special order; please contact us to discuss your requirements.

Model Number 3575 –  –

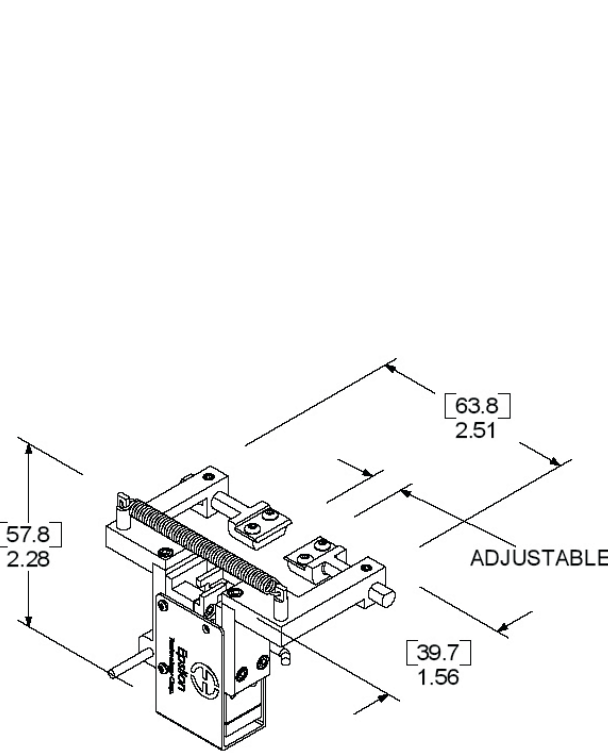
Measuring Range:	
-050M	±0.5 mm
-100M	±1.0 mm
-250M	±2.5 mm
-300M	±3.0 mm
-500M	±5.0 mm

Also available in inches

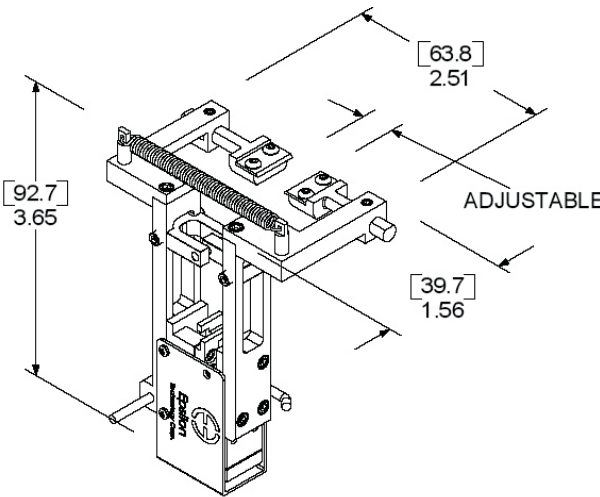
Temperature Range	
-LT	-270 °C to 100 °C (-454 °F to 210 °F)
-ST	-40 °C to 100 °C (-40 °F to 210 °F)
-HT1	-40 °C to 150 °C (-40 °F to 300 °F)
-HT2	-40 °C to 200 °C (-40 °F to 400 °F)
-LHT	-270 °C to 200 °C (-454 °F to 400 °F)

Example: 3575-050M-ST: ±0.05 mm measuring range,  
standard temperature option (-40 °C to 100 °C)

Example: Model 3575-150M-\_\_  
Dimensions: [mm] inch



MOST MODEL 3575 VERSIONS



3575 WITH ±5 MM MEASURING RANGE

DIMENSIONS: [mm] inches