



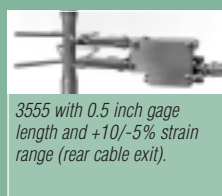
3555 with 50 mm gage length and +20/-10% strain range (bottom cable exit).



3555 with 25 mm gage length and +50/-10% strain range.



3555 may be used simultaneously with Model 3675 transverse extensometer.



3555 with 0.5 inch gage length and +10/-5% strain range (rear cable exit).

For use in environmental chambers where the entire extensometer must be exposed to elevated temperatures. These capacitive extensometers may be used up to 540 °C (1000 °F) without any cooling.

These extensometers use a high temperature capacitive sensor and do not require any cooling. They will operate up to the maximum temperature limit of most environmental chambers used in materials testing. The Model 3555 is ideal for testing composites, metals and high temperature polymers in tensile, compression or cyclic testing. All units can be displaced in both compression and tension.

The extensometer comes with the Model 3603 signal conditioner. The output is an analog DC voltage, factory calibrated with the extensometer to 0 to 10 VDC typically.

They are readily interfaced with most existing test controllers, and may be directly connected to data acquisition systems and chart recorders. Bringing the signal into a spare DC input channel (or external input) on the test controller allows the extensometer to be used for strain controlled tests like low cycle fatigue.

Contact Epsilon for your special testing requirements.

Features

- May be left on through specimen failure.
- 3603 signal conditioner and power supply included. Provides high level DC voltage output with exceptionally low noise (typical 0.1 mV on 10VDC output). Easily interfaced to test controllers, data acquisition boards, and chart recorders.
- Shipped fully calibrated with electronics (traceable to NIST) with user specified voltage output.
- All models can measure in both tension and compression and can be used for cyclic testing.
- Mechanical overtravel stops in both directions.
- All standard units meet existing ASTM class B-1 and ISO 9513, class 0,5 requirements for accuracy.
- Hardened tool steel knife edges are easily replaced. A spare set comes with every extensometer.
- Includes high quality foam lined case and a spare set of 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.

SPECIFICATIONS

- Input:** Includes power supply for your country (specify)
- Output:** User specified, +/-5 VDC or +/-10VDC typical
- Linearity:** 0.10% of full scale measuring range
- Temperature Range:** Ambient to 540 °C (ambient to 1000 °F)
- Cable:** Triaxial ceramic fiber insulated cable 3 ft (1 m) plus 10 ft (3 m) extension cable
- Standard Quick Attach Kit:** Fits round samples up to 0.5 inch diameter (12 mm) and flats to 0.5 inch thick by 0.75 inch wide (12 mm by 19 mm)
- Operating force:** <30 g typical
- Environment:** Recommended for elevated temperature testing in air or some other gases

OPTIONS

- Connectors to interface to nearly any brand test equipment
- Adapter kits to change gage lengths
- Specialty knife edges (see page 97)
- Bottom or back cable exit

Signal Conditioning Electronics.

Model 3603 included with all Model 3555 extensometers.



ORDERING INFORMATION

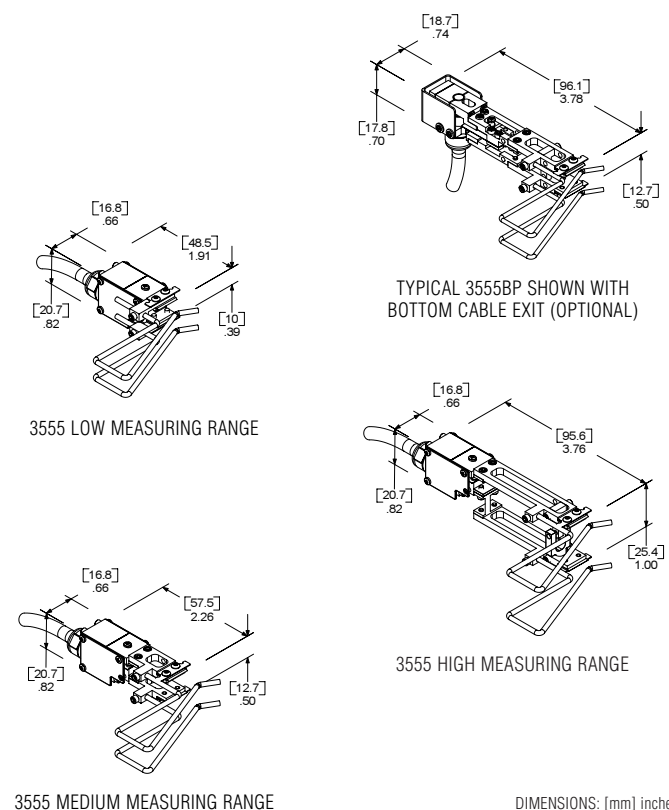
Model 3555 Available Versions: ANY combination of gage length and measuring range listed below is available, except as noted.

Gage Length		Measuring Range	
U.S.A.		% STRAIN	LINEARITY
-0050	0.500"	±5%	0.10%
-0100	1.000"	±10%/-5%	0.10%
-0200	2.000"	+20%/-10%	0.10%
		+50%/-10%	0.10%
METRIC			
-010M	10.0 mm		
-025M	25.0 mm		
-050M	50.0 mm		

Model Number 3555- _____ - _____

¹ Not available in 50 mm or 2 inch gage lengths.

Example: 3555-0100-020: 1.0 inch gage length, +20%/-10% measuring range



DIMENSIONS: [mm] inches