

STGA High Resolution Strain Gauge Extensometers

A general purpose precision extensometer, designed for a wide range of materials including metals, plastics, composites and ceramics.

The STGA extensometer operates in tension, compression and cyclic testing modes. Its dual

flexure design permits higher frequency operation, while eliminating sensitivity to vibrations.

The extensometer is supplied with an attachment kit to allow quick, one hand mouting to the sample.

Features

- Tests specimen through failure
- Suitable for axial tension, compression and cyclic testing
- Overtravel safety stop eliminates risk of damage
- Interchangeable components: arms, spacers and steel knife edges
- Meets ASTM E83 Class B-1, ISO 9513, Class 0.5
- Simple one hand mounting to sample

Specifications

Measurement Principle:	Full bridge strain gauge
Accuracy:	0.5%
Maximum Clamp Opening:	25 mm (0.98 in)
Maximum Elongation:	10%, 20%, 25%
Selectable Gauge Lengths:	10mm (0.4 in) 25 mm (1 in) 50 mm (2 in) 80 mm (3.2 in)
Temperature Range:	-40° C to +100° C
Excitation:	10 VDC typical
Output:	2-4 mV/V nominal



Accessories

for Lloyd Instruments LRX, LS100 and LR Series Test Machines using STGAxx/xx/L Type Extensometers

Item	Part No	Item	Part No
Amplifier kit for LRX Series Machines	01/2252	Amplifier kit for LR Series* and LS100 Test Machines	01/1966

**Note: A strain gauge amplifier is required when using a STGA extensometer with an LR Series machine except for LR100K, LR150K and LR300K machines, which are factory fitted with an amplifier as standard.*

Ordering Information

Model			Part No	Model			Part No
High Resolution Strain Gauge Extensometers for use with LR Series and LS100 Series Machines:				High Resolution Strain Gauge Extensometers for use with EZ and <i>Plus</i> Series Machines:			
STGA10/10/L	10 mm (0.39 in) gauge length	01/2793		STGA10/10/E	10 mm (0.39 in) gauge length	01/2917	
	10% max elongation				10% max elongation		
STGA25/10/L	25 mm (0.98 in) gauge length	01/2794		STGA25/10/E	25 mm (0.98 in) gauge length	01/2918	
	10% max elongation				10% max elongation		
STGA25/25/L	25 mm (0.98 in) gauge length	01/2795		STGA25/25/E	25 mm (0.98 in) gauge length	01/2919	
	25% max elongation				25% max elongation		
STGA25/50/L	25 mm (0.98 in) gauge length	01/2796		STGA25/50/E	25 mm (0.98 in) gauge length	01/2920	
	50% max elongation				50% max elongation		
STGA25/100/L	25 mm (0.98 in) gauge length	01/2797		STGA25/100/E	25 mm (0.98 in) gauge length	01/2921	
	100% max elongation				100% max elongation		
STGA50/25/L	50 mm (1.97 in) gauge length	01/2798		STGA50/25/E	50 mm (1.97 in) gauge length	01/2922	
	25% max elongation				25% max elongation		
STGA50/50/L	50 mm (1.97 in) gauge length	01/2799		STGA50/50/E	50 mm (1.97 in) gauge length	01/2923	
	50% max elongation				50% max elongation		
STGA50/100/L	50 mm (1.97 in) gauge length	01/2800		STGA50/100/E	50 mm (1.97 in) gauge length	01/2924	
	100% max elongation				100% max elongation		
STGA80/10/L	80 mm (3.15 in) gauge length	01/2801		STGA80/10/E	80 mm (3.15 in) gauge length	01/2925	
	10% max elongation				10% max elongation		
STGA80/25/L	80 mm (3.15 in) gauge length	01/2802		STGA80/25/E	80 mm (3.15 in) gauge length	01/2926	
	25% max elongation				25% max elongation		



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