

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 mounting 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 10% max elongation	01/2793	STGA10/10/E 10 mm (0.39 in) gauge length 10% max elongation	01/2917
STGA25/10/L 25 mm (0.98 in) gauge length 10% max elongation	01/2794	STGA25/10/E 25 mm (0.98 in) gauge length 10% max elongation	01/2918
STGA25/25/L 25 mm (0.98 in) gauge length 25% max elongation	01/2795	STGA25/25/E 25 mm (0.98 in) gauge length 25% max elongation	01/2919
STGA25/50/L 25 mm (0.98 in) gauge length 50% max elongation	01/2796	STGA25/50/E 25 mm (0.98 in) gauge length 50% max elongation	01/2920
STGA25/100/L 25 mm (0.98 in) gauge length 100% max elongation	01/2797	STGA25/100/E 25 mm (0.98 in) gauge length 100% max elongation	01/2921
STGA50/25/L 50 mm (1.97 in) gauge length 25% max elongation	01/2798	STGA50/25/E 50 mm (1.97 in) gauge length 25% max elongation	01/2922
STGA50/50/L 50 mm (1.97 in) gauge length 50% max elongation	01/2799	STGA50/50/E 50 mm (1.97 in) gauge length 50% max elongation	01/2923
STGA50/100/L 50 mm (1.97 in) gauge length 100% max elongation	01/2800	STGA50/100/E 50 mm (1.97 in) gauge length 100% max elongation	01/2924
STGA80/10/L 80 mm (3.15 in) gauge length 10% max elongation	01/2801	STGA80/10/E 80 mm (3.15 in) gauge length 10% max elongation	01/2925
STGA80/25/L 80 mm (3.15 in) gauge length 25% max elongation	01/2802	STGA80/25/E 80 mm (3.15 in) gauge length 25% max elongation	01/2926



www.ametek.com

UK
Lloyd Instruments Ltd
12 Barnes Wallis Road
Segensworth East, Fareham
Hants, PO15 5TT

Tel +44 (0)1489 486 399
Fax +44 (0)1489 885 118
E-mail general@lloyd-instruments.co.uk
Web www.lloyd-instruments.co.uk

USA
AMETEK TCI Division
8600 Somerset Drive
Largo
Florida 33773

Tel +1 (727) 536 7831
Fax +1 (727) 539 6882
E-mail chatillon.fl-lar@ametek.com
Web www.lloyd-instruments.co.uk

Far East
AMETEK Singapore Pte Ltd
10 Ang Mo Kio Street 65
#05-12 Techpoint
SINGAPORE 569059

Tel +65 6484 2388
Fax +65 6481 6588
E-mail aspl@ametek.com.sg
Web www.lloyd-instruments.co.uk

France
Lloyd Instruments S.A.S.
3, Avenue des Coudriers
Zone d'activité de l'observatoire
78180 Montigny Le Bretonneux

Tel +33 (0)1 30 57 47 74
Fax +33 (0)1 30 57 50 33
E-mail general@lloyd-instruments.com
Web www.lloyd-instruments.fr

Germany
AMETEK GmbH
Rudolf-Diesel-Straße 16
D-40670 Meerbusch

Tel +49 (0)2159 9136-70
Fax +49 (0)2159 9136-80
E-mail info@ametek.de
Web www.ametek.de