

LASERSCAN 200 Non-Contacting Laser Extensometer

The Laserscan 200 is a versatile, non-contacting laser extensometer.

A bright red scanning beam illuminates the sample and gauge markers, making it easy to set up and align. The Laserscan 200 includes four gain settings allowing it to be used over a wide range of gauge lengths without adjustment to its calibration or position.

It incorporates a digital display, which is used to facilitate calibration and provides a continuous readout. The instrument has an analogue output (0-10 V), which allows it to be interfaced with all Lloyd Instruments test machines and most other materials testing equipment by other manufacturers.

Two reflective markers denote the gauge length of the sample. The Laserscan senses the leading edges of these markers and is unaffected by their shape, making accurate setting of the gauge length a very simple procedure.

An 80 Hz laser beam sweeps the axial length of the specimen, illuminating and detecting the position of the gauge markers. As the sample is stressed the markers separate and any movement is measured. The Laserscan 200 is supplied with an adjustable stand to allow accurate positioning for different length test specimens.

The Laserscan is suitable for use with a wide range of materials with varying ductility including plastics, film, rubber and textiles. It eliminates the problems associated with contacting extensometers making it particularly suitable for elastomeric samples where the pressure of knife edges on a contacting extensometer could induce local stresses and weaken the sample.

Specialist punches for applying reflective tape targets can be ordered separately.

Features

- Suitable for high elongation samples
- Used for tension testing
- Non-contacting extension measurement eliminates any stresses being introduced to the sample by knife edges associated with contacting extensometer types.
- Easy to set up and align
- Can be used over a wide range of gauge lengths without the need to adjust its calibration and position
- Can be used with other makes of test machines

Specifications

Gauge Length:	10-2000 mm (0.39-78.7 in)
Elongation Range:	10-2000 mm (0.30-78.7 in)
Accuracy:	±0.5% of working length
Measurement Principle:	Ratio non-contacting
Signal to Noise Ratio:	72 db
Scan Frequency:	80 Hz (nominal)
Analogue Output:	0-10 V
Supply Voltage:	220/240V ac and 110/120V ac
Power Requirements:	100 W max

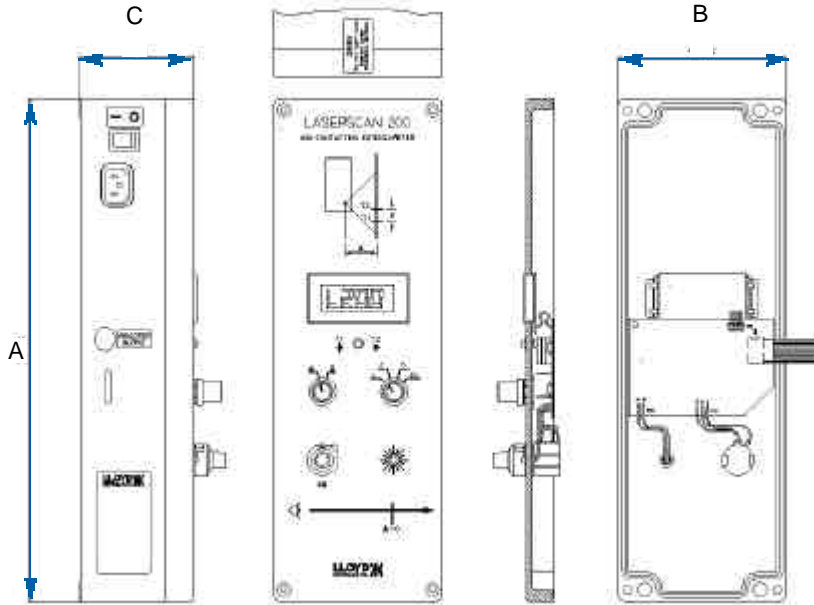


Laserscan 200
Extensometer

Accessories

Item	Part No	Item	Part No
Extensometer Bracket for Thermal Cabinet	07/1708	Grey Reflective Tape	50/0336
Punch to Apply 2 mm Targets	01/1159	Free Standing Extensometer Stand (supplied)	07/1719
Punch to Apply 4 mm Targets	01/1156		

Instrument Dimensions



		mm	in
A	Laserscan Height	358	14.1
B	Laserscan Width	120	4.7
C	Laserscan Depth	81	3.2

Ordering Information

Model	Part No	Model	Part No
Laserscan 200 for use with LR Series and LS100 Series Machines:		Laserscan 200 for use with EZ Series and Plus Series Machines:	
Laserscan (LR) Laserscan, 240 V	01/2932	Laserscan (EZ) Laserscan, 240 V	01/2913
Laserscan (L1) Laserscan, 115 V	01/2940	Laserscan (E1) Laserscan, 115 V	01/2939

AMETEK
TEST & CALIBRATION INSTRUMENTS



www.ametek.com

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

USA
AMETEK TCI Division
8600 Somerset Drive
Largo
Florida 33773

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

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

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

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

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

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

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

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