



Description

The STA-4 series load cell is ideal for measuring both tensile and compressive forces. The standard metric threads at each end of the load cell are designed to accept standard spherical seating rod-end bearing.

The STA-4 is suitable for many applications where a tension and compression load cell is required, for high accuracy measurements. Applications such as vessel weighing, material test machines and dynamometers are a few examples.

This range of products is ideally suited for many other OEM applications, offering a highly cost effective solution for a wide variety of applications.

The STA-4 series can be supplied on its own or combined with our extensive range of instrumentation to provide a complete load monitoring system.

Typical Applications

- Hanging scales
- Material test machines
- Engine/motor dynamometers
- General force measurement
- Process weighing

STA-4 Tension/Compression Load Cell



Features

- Ranges 1500, 2000, 3000, 5000kg
- Alloy steel nickel plated construction
- Environmentally sealed to IP67
- Can be supplied complete with mating spherical rod-end bearings

TYPE: STA-4

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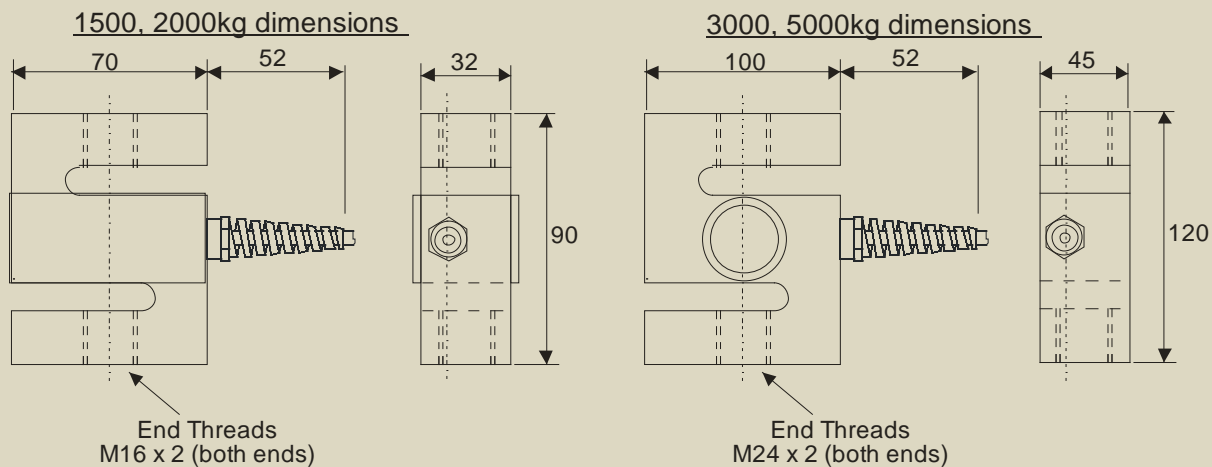
Tension/Compression Load Cell

Specification

Rated Load (kg):	1500, 2000, 3000, 5000
Proof Load:	150% of Rated Load
Ultimate Breaking Load:	>300% of Rated Load
Output:	2.0 mV/V at Rated Load ($\pm 0.1\%$)
Accuracy:	$< \pm 0.02\%$ of Rated Load
Non-Repeatability:	$< \pm 0.01\%$ of Rated Load
Excitation Voltage:	10vdc recommended, 15vdc maximum
Bridge Resistance:	350 Ω
Insulation Resistance:	>500M Ω @ 100vdc
Operating Temperature Range:	-20 to +70°C
Compensated Temperature Range:	-10 to +40°C
Zero Temperature Coefficient:	$< \pm 0.005\%$ of Rated Load/°C
Span Temperature Coefficient:	$< \pm 0.002\%$ of Rated Load/°C
Environmental Protection Level:	IP67
Connection Type:	PVC screened cable 5m long, via cable gland
Wiring Connections:	Green +ve supply Black -ve supply Red +ve signal White -ve signal
Options Available	Can be supplied with instrumentation Spherical seating rod end bearings Compression load button

Mechanical Dimensions

All dimensions in millimeters



Due to continual product development, LCM Systems Ltd. reserves the right to alter product specifications without prior notice.

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Unit 15, Newport Business Park
Barry Way, Newport, Isle of Wight, PO30 5GY
United Kingdom
Tel: +44 (0) 1983 249264
Fax: +44 (0) 1983 249266
Email: sales@lcm systems.com

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SYSTEMS

www.lcm systems.com

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