

# **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

# **Typical Applications**

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

**AVAILABLE TO BUY ONLINE** 

Visit our website www.lcmsystems.com (In-stock items usually ship within 48 hours)

### LCM Systems Ltd

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# STA-4 Alloy Steel S Type Tension & Compression Load Cell

## Description

The STA-4 load cell series 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 bearings.

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 also ideally suited for many other OEM load measurement projects, offering a highly cost effective solution for a wide variety of industrial 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.

# **Specification**

Rated load (kg)	1500, 2000, 3000, 5000		
Proof load	150% of rated load		
Ultimate breaking load	>300% of rated load		
Output	2mV/V at rated load (±0.002mV/V)		
Accuracy	<±0.02% of rated load		
Non-repeatability	<±0.01% of rated load		
Excitation voltage	10vdc recommended, 15vdc maximum		
Bridge resistance	350Ω		
Insulation resistance	>2000MΩ at 100vdc		
Operating temperature range	-20 to +70°C		
Compensated temperature range	-10 to +40°C		
Zero temperature coefficient	<±0.004% of rated load/°C		
Span temperature coefficient	<±0.001% of rated load/°C		
Environmental protection level	IP67		
Connection type	5 metre 6 wire PVC screened cable, via gland cable		
Wiring connections	+supply: Blue -supply: Black +signal: Red -signal: White		
	+sense: Green -sense: Grey		

# **Available Options**

- Spherical seating rod end bearings
- Compression load button
- TEDS option (when used with TR150 handheld display)

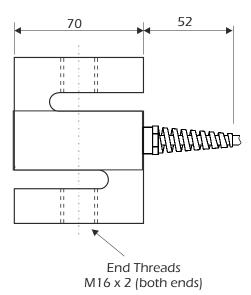


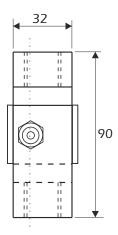
# www.lcmsystems.com

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### **Dimensions**

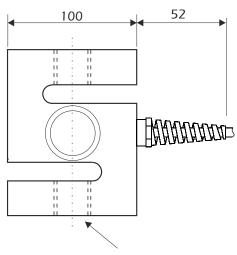
# 1500 & 2000kg

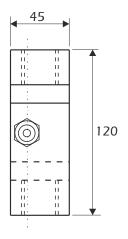




All dimensions are in mm

# 3000 & 5000kg





End Threads M24 x 2 (both ends)

Rating (kgs)	Part Number	Weight (kgs)	Resolution (kgs)
1500	STA-4-1500	1.5	0.1
2000	STA-4-2000	1.5	0.2
3000	STA-4-3000	3.9	0.2
5000	STA-4-5000	3 9	0.5

the right to alter product specifications without prior notice

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