### TYPE: STA-1



### **Features**

- Ranges: 50, 100, 200, 300kg
- Aluminium alloy construction
- Environmentally sealed to IP67
- Can be supplied complete with mating spherical rod-end bearings
- Suitable for use in harsh environments

## **Typical Applications**

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

### LCM Systems Ltd

Unit 15, Newport Business Park Barry Way, Newport Isle of Wight PO30 5GY UK Tel: +44 (0) 1983 249264 Fax: +44 (0) 1983 249266 sales@Icmsystems.com www.lcmsystems.com

# STA-1 Aluminium S Type Tension & Compression Load Cell

### Description

The STA-1 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-1 is suitable for many applications, including harsh environments, 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.

The STA-1 series can be supplied on its own or combined with our extensive range of instrumentation to provide a complete load monitoring system.

### **Specification**

| 50, 100, 200, 300                            |  |  |
|--|--|--|
| 150% of rated load                           |  |  |
| >300% of rated load                          |  |  |
| 2mV/V at rated load (±0.2%)                  |  |  |
| <±0.02% of rated load                        |  |  |
| <±0.01% of rated load                        |  |  |
| 10vdc recommended, 15vdc maximum             |  |  |
| 415Ω   |  |  |
| >2000MΩ at 100vdc                            |  |  |
| -30 to +70°C                                 |  |  |
| -10 to +40°C                                 |  |  |
| <±0.002% of rated load/°C                    |  |  |
| <±0.001% of rated load/°C                    |  |  |
| IP67   |  |  |
| 3 metres PVC screened cable, via gland cable |  |  |
| +supply: Green -supply: Black                |  |  |
| +signal: Red -signal: White                  |  |  |
| +sense: Blue -sense: Brown                   |  |  |
|  |  |  |

### **Available Options**

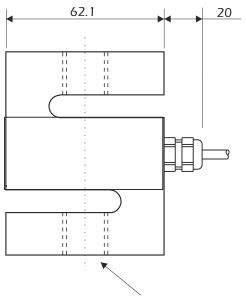
- Spherical seating rod end bearings
- Compression load button
- TEDS option (when used with TR150 handheld display)

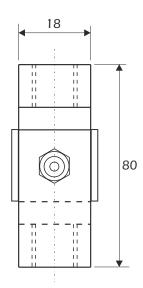


# www.lcmsystems.com

# STA-1 Aluminium S Type Tension & Compression Load Cell

### **Dimensions**





End Threads M12 x 1.75 (both ends)

| Rating<br>(kgs) | Part<br>Number | Weight<br>(g) | Resolution<br>(kgs) |
|-----------------|----------------|---------------|---------------------|
| 50              | STA-1-50       | 429           | 0.005               |
| 100             | STA-1-100      | 429           | 0.01                |
| 200             | STA-1-200      | 429           | 0.02                |
| 300             | STA-1-300      | 429           | 0.02                |

Note: default calibration of these load cells will be in tension. If you require calibration in compression or both tension & compression, please state at time of order (additional charges may apply).







### SCIGATE AUTOMATION (S) PTE LTD

No.1 Bukit Batok Street 22 #01-01 Singapore 659592

Tel: (65) 6561 0488 Fax: (65) 6562 0588

Email: sales@scigate.com.sg Web: www.scigate.com.sg

Business Hours: Monday - Friday 8.30am - 6.15pm

the right to alter product specifications without prior notice

Issue No. 2
Issue date: 09/12/2015
APPROVED
(unapproved if printed)

