

Model ST

S-TYPE

50kg~20t

APPLICATIONS

- Hybrid scales
- Materials testing
- Lever conversions
- Crane scales
- Hopper weighing



FEATURES

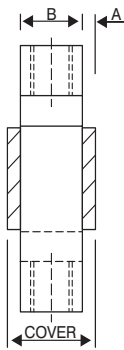
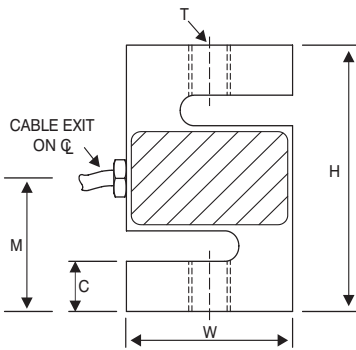
- Compatible with International standard fixings
- Tension, compression & suspended load applications
- Huge capacity coverage
- 3 year warranty
- Electroless nickel plated tool steel to IP65
- ISO 9001 certified manufacturing facilities



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Dimensions

| Capacity | A | B | C | H | M | T | W |
|----------|---|----|------|------|-------|------------------|-----|
| 50kg | 4 | 13 | 10.6 | 63.5 | 31.75 | 1/4" x 28P UNF | 51 |
| 100kg | 4 | 13 | 10.6 | 63.5 | 31.75 | 1/4" x 28P UNF | 51 |
| 250kg | 4 | 25 | 14.3 | 76 | 38 | 1/2" x 20P UNF | 51 |
| 500kg | 4 | 25 | 14.3 | 76 | 38 | 1/2" x 20P UNF | 51 |
| 1000kg | 4 | 25 | 14.3 | 76 | 38 | 1/2" x 20P UNF | 51 |
| 2500kg | 0 | 30 | 20.3 | 102 | 51 | 3/4" x 16P UNF | 76 |
| 5000kg | 0 | 30 | 20.3 | 102 | 51 | 3/4" x 16P UNF | 76 |
| 10000kg | 0 | 48 | 39.5 | 150 | 75 | 1 1/4" x 12P UNF | 125 |
| 20000kg | 0 | 58 | 40 | 160 | 80 | 1 1/4" x 12P UNF | 158 |

Ordering Information

| Capacity | Model |
|----------|----------|
| 50kg | ST-50 |
| 100kg | ST-100 |
| 250kg | ST-250 |
| 500kg | ST-500 |
| 1000kg | ST-1000 |
| 2500kg | ST-2500 |
| 5000kg | ST-5000 |
| 10000kg | ST-10000 |
| 20000kg | ST-20000 |

Accessories

| Part | 50kg-100kg | 250kg-1000kg | 2500kg |
|-------------------|------------|--------------|-------------|
| Load Button | A-LB0.250 | A-LB0.500 | A-LB0.750 |
| Load Socket | A-LS20 | A-LS20 | A-LS30 |
| Rod End Bearings | A-RE0.250 | A-RE0.500 | A-RE0.750-2 |
| Spherical Washers | A-SW8/20 | A-SW12/23 | A-SW20/40 |

| Part | 5000kg | 10000kg | 20000kg |
|-------------------|-------------|--------------|--------------|
| Load Button | A-LB0.750 | A-LB0.250 | A-LB0.250 |
| Load Socket | A-LS30 | A-LS75 | A-LS75 |
| Rod End Bearings | A-RE0.750-5 | A-RE1.250-10 | A-RE1.250-20 |
| Spherical Washers | A-SW20/40 | A-SW32/60 | A-SW32/60 |

Cable Colour Code

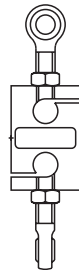
| | |
|----------------|--------------|
| Excitation +ve | Red |
| Sense +ve | Brown |
| Excitation -ve | Black |
| Sense -ve | Blue |
| Signal +ve | Green |
| Signal -ve | White |

Cable Length

| | | |
|-----------------|--------|----------|
| 50kg-1000kg | 4 Core | 3 Metres |
| 2500kg-5000kg | 6 Core | 5 Metres |
| 10000kg-20000kg | 6 Core | 5 Metres |

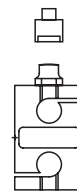
TENSION APPLICATIONS

ROD END
Used singularly
or in pairs



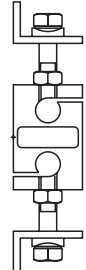
COMPRESSION APPLICATIONS

LOAD SOCKET
LOAD BUTTON
ST LOADCELL



SUSPENDED LOAD APPLICATIONS

SPHERICAL
WASHER
PAIR



Specifications

| | |
|-----------------------------------|------------------|
| Nominal capacity | 50kg to 20t |
| Nominal output at capacity | 2mV/V \pm 0.1% |
| Factory calibration mode | Compression |
| Linearity error | 0.017% |
| Repeatability | 0.01% |
| Zero return, creep (30 mins) | 0.015% |
| Temp. effect span/10° C | 0.01% |
| Temp. effect zero/10° C | 0.015% |
| Insulation resistance-brg. to gnd | > 5000 Mohms |
| Insulation resistance-cbl. to gnd | > 1000 Mohms |

| | |
|--------------------------|------------------------------|
| Compensated temp. range | -10° to 50° C |
| Output resistance | 352.2 Ohms |
| Input resistance | 410 Ohms nominal |
| Service load | 100% of Rated Capacity |
| Safe load | 150% of Rated Capacity |
| Mechanical failure | > 300% of Rated Capacity |
| Recommended excitation | 5 Volts to 15 Volts AC or DC |
| Maximum excitation | 15 Volts DC |
| Environmental protection | IP65 Standards |

**** All specifications are a maximum, as a % (\pm) of full load, unless otherwise stated.**



Precision Transducers Ltd.

Sales & Product Information

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Certificate No. QS247.96

Due to Precision Transducer's policy of continuous development, these specifications are subject to change without notice.