

S-Type Stainless Steel Load Cell

FEATURES

- Capacity range: 500-5000 kg
- · Stainless steel construction
- Sealed by welding to IP68
- S-type design for use in tension and compression
- OIML approved to 3000d (500–5000 kg)
- NTEP approved to 5000d (500–5000 kg)
- · Choice of mounting threads metric or unified systems
- 6-Wire cable (sense circuit)

Optional

- Ex ia IIC T6-ATEX hazardous area approval
- Class I, II, III Division 1 FM hazardous area approval
- IECEx approval available

APPLICATIONS

- Hopper (tank Weighing)
- Hybrid scales
- · Belt weighing
- · Lever arm conversions
- · Material testing machines
- Vibrations filling equipment
- Dynamometers

DESCRIPTION

The Model 620 is a stainless steel S-type load cell. Its welded sealing combined with high accuracy, make this load cell ideally suited for a wide range of applications of process weighing and force measurements.













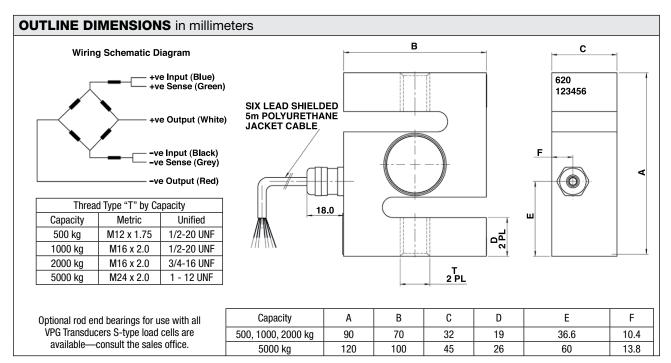


Approvals include OIML C3 (3000d); NTEP 3000d single and NTEP 5000d multiple.

Also available are versions approved for hazardous areas—ATEX II 1 GD Ex ia T6 for Europe and FM I, II, III Division 1 for the USA.

The six-wire cable includes two sense wires that compensate for changes in lead resistance due to temperature changes and cable extension.

The Model 620 offers a choice of bolt threads in metric or unified systems; see table below.





S-Type Stainless Steel Load Cell

| SPECIFICATIONS | | | | | |
|---|-----------------------|--------------|--------|-----------|-----------------------------|
| PARAMETER | VALUE | | | | UNIT |
| Rated capacity—R.C. (E _{max}) | 500, 1000, 2000, 5000 | | | | kg |
| NTEP/OIML | NTEP | Non-Approved | C2/50 | C3/50 | |
| Maximum no. of intervals (n) | Class III | 1000 | 2000* | OIML 3000 | |
| Y = E _{max} /V _{min} | 5000 | 2000 | 4000 | 6000 | |
| Rated output—R.O. | 2.0 | | | | mV/V |
| Rated output tolerance | 0.002 | | | | ±mV/V |
| Zero balance | 0.04 | 0.06 | 0.04 | 0.04 | ±mV/V |
| Total error (per OIML R60) | 0.0200 | 0.0500 | 0.0300 | 0.0200 | ±% of R.O. |
| Zero return, 30 min. | 0.010 | 0.0500 | 0.0250 | 0.0170 | ±% of applied load |
| Temperature effect on zero | 0.00112 (0.00062) | 0.0070 | 0.0035 | 0.0023 | ±% of R.O./°C (/°F) |
| Temperature effect on output | 0.0018 (0.0010) | 0.0400 | 0.0014 | 0.0012 | ±% of applied load/°C (/°F) |
| Temperature range, compensated | -10 to +40 | | | | °C |
| Temperature range, safe | -30 to +90 | | | | °C |
| Maximum safe static overload | 150 | | | | % of R.C. |
| Excitation, recommended | 10 | | | | VDC or VAC RMS |
| Excitation, maximum | 15 | | | | VDC or VAC RMS |
| Input impedance | 400±20 | | | | Ω |
| Output impedance | 350±3 | | | | Ω |
| Insulation resistance | >1000 | >2000 | >2000 | >2000 | ΜΩ |
| Construction | Stainless steel | | | | |
| Environmental protection | IP68 | | | | |

All specifications subject to change without notice.



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