

Compression Load Cell

FEATURES

- Capacities: 30, 40 and 50 t
- Self-aligning, stainless steel single column
- Hermetically sealed, IP66/68/69K
- Certified to OIML R60 5500d and NTEP IIL/10,000 d
- Built-in surge protection
- Current calibration output ensures the easy and accurate parallel calibration of multiple load cells
- Compatible with original Model ASC
- **Optional**
 - Digital version available (Model DSC2)
 - ATEX and IECEx approvals available



APPLICATIONS

- Weighbridges
- Process weighing

DESCRIPTION

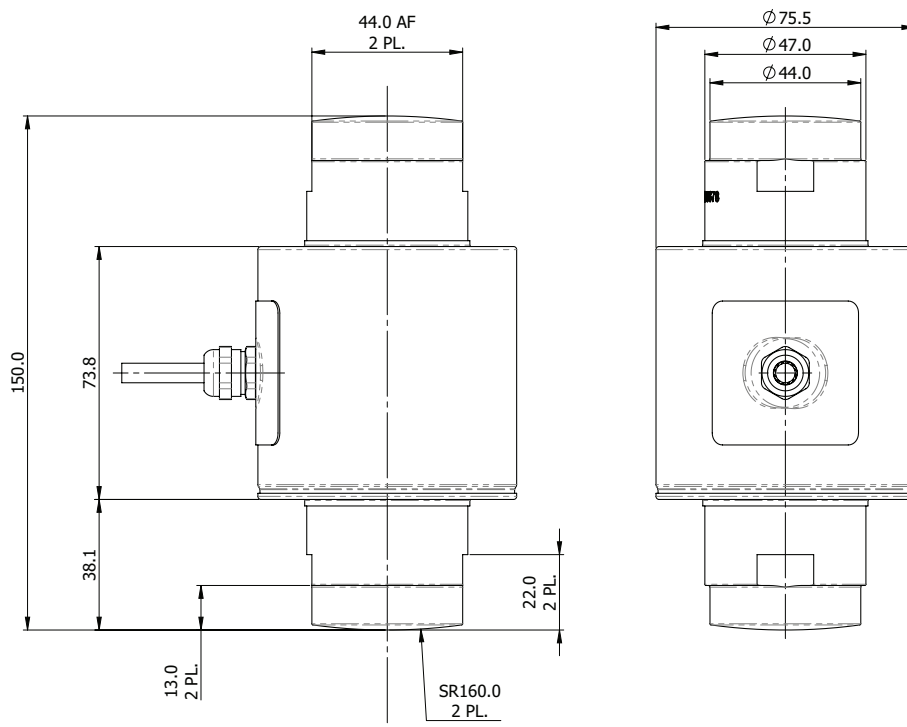
The Model ASC2 is a single column, stainless steel compression load cell fully compatible with original Model ASC.

This product is suitable for use in road and rail weighbridges and process weighing applications.

The fully welded construction and built-in surge protection ensures that this product can be used successfully in many demanding environments.

This load cell meets the stringent Weights and Measures requirements throughout Europe and the Americas.

OUTLINE DIMENSIONS in millimeters



Cable specifications

| | |
|---------------|-------|
| Cable length: | 15m |
| Excitation + | Green |
| Excitation - | Black |
| Output + | White |
| Output - | Red |

Shield is a bare twisted braid.

Compression Load Cell

| SPECIFICATIONS | | | | | | | |
|-------------------------------------|--|--------|--------|--------|---------|----------|----------------|
| PARAMETER | VALUE | | | | | | UNIT |
| VPG Accuracy class | I3 (NTEP) | F3 | G5 | G3 | H4 | J6 | |
| Minimum utilization | | 33 | 50 | 32 | 43 | 64 | % of R.C. |
| NTEP Accuracy class/ n_{max} | III/10000 Multiple | | | | | | |
| OIML Accuracy class | | C2 | C3 | C3MR10 | C4MR10 | C5.5MR10 | |
| Maximum no. of intervals (n) | 10000 | 2000 | 3000 | 3000 | 4000 | 5500 | |
| Rated capacity – R.C. (E_{max}) | 30, 40, 50 | | | | | | t |
| Rated output – R.O. | 2.0 | | | | | | mV/V |
| Rated output tolerance | 0.02 | | | | | | ±mV/V |
| Zero balance | 0.02 | | | | | | ±mV/V |
| Nominal U/R ratio | 1.9740 | | | | | | µA/Ω |
| U/R ratio error | 0.08 | | | | | | ±% |
| Creep (30 min.) | 0.050 | 0.025 | 0.025 | 0.025 | 0.018 | 0.013 | ±% of load |
| Zero return (30 min.) | 0.015 | 0.025 | 0.017 | 0.017 | 0.0125 | 0.009 | ±% of load |
| Total error | 0.030 | 0.030 | 0.020 | 0.020 | 0.015 | 0.010 | ±% of R.O. |
| Temperature effect on output | 0.0012 | 0.0012 | 0.0012 | 0.0012 | 0.00075 | 0.006 | ±% of load/°C |
| Temperature effect on zero | 0.0014 | 0.0023 | 0.0023 | 0.0014 | 0.0014 | 0.0014 | ±% of R.O./°C |
| $Y = E_{max}/V_{min}$ | 9400 | 6000 | 6000 | 9400 | 9400 | 9400 | |
| Temp. range, compensated | -10 to +40 | | | | | | °C |
| Temp. range, safe | -30 to +70 | | | | | | °C |
| Temp. range, storage | -40 to +90 | | | | | | °C |
| Maximum safe static overload | 150 | | | | | | % of R.C. |
| Ultimate static overload | 300 | | | | | | % of R.C. |
| Excitation, recommended | 10 | | | | | | VDC or VAC RMS |
| Excitation, range | 5–15 | | | | | | VDC or VAC RMS |
| Input impedance | 1160 ±60 | | | | | | Ω |
| Output impedance | 1011.5 ±11.5 | | | | | | Ω |
| Insulation resistance | >2000 | | | | | | MΩ |
| Cable length | 15 (49) | | | | | | m (ft) |
| Cable type | 4 conductors, 24 AWG, polyurethane jacket | | | | | | |
| Color code | +exc. Green, -exc. Black, +sig. White, -sig. Red Shield (floating): Bare, twisted braid | | | | | | |
| Construction | Stainless steel, welded seal | | | | | | |
| Compensation circuit type | Balanced | | | | | | |
| Balance symmetry | 5.0 | | | | | | Ω |
| Environmental protection | IP66/IP68 (100 hr at 1 m) / IP69K | | | | | | |
| Outline dimensions DWG | 264.000.00 | | | | | | |

All specifications subject to change without notice.



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