

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 easy and accurate parallel calibration of multiple load cells
- Compatible with the original Model ASC
- **Optional**
 - Digital version available (Model DSC2)
 - ATEX and IECEx approvals



APPLICATIONS

- Weighbridges
- Process weighing

DESCRIPTION

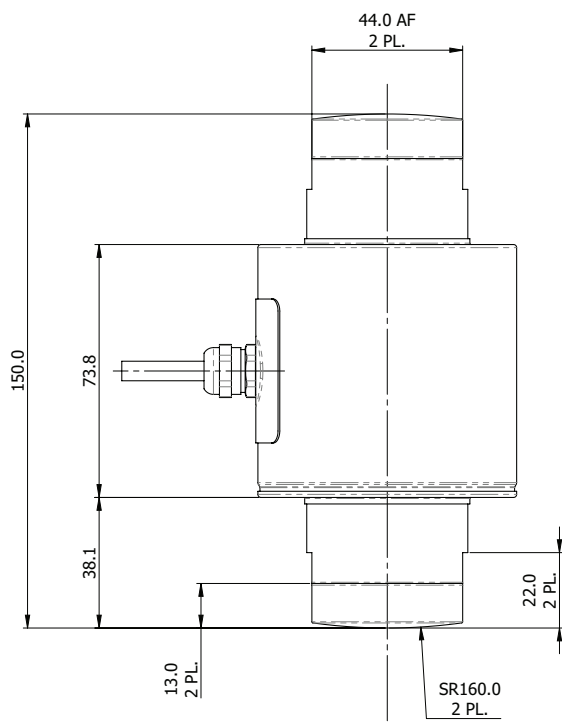
Model ASC2 is a single column, stainless-steel compression load cell fully compatible with original the Model ASC.

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

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}	IIIL/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.

CERTIFICATION MARKINGS

ATEX/IECEX/UKEX markings (for Zone 0,1,2 and Zone 20,21,22)

II 1 GD

Ex ia IIC T4 Ga

Ex ia IIIC T135°C Da

Ta = -20°C to +40/70°C

ATEX/UKEX markings (for Zone 2 and Zone 22 only)

II 3GD

Ex ec IIC T6 Gc

Ex tc IIIC T85°C Dc

Ta = -20 to +40°C

or

II 3GD

Ex ec IIC T4 Gc

Ex tc IIIC T135°C Dc

Ta = -20 to +70°C