

Compression Load Cell

FEATURES

- Capacities: 10-100 t
- Low profile, multi-column stainless steel construction
- Hermetically sealed, IP66, IP68, and IP69K
- Certified to OIML R-60, 4000d and NTEP class IIIL 10000 divisions
 - Model CSP offers klb capacity, imperial thread and NTEP approval
 - Model CSP-M offers metric capacity, thread and OIML approval
- Built-in surge protection tubes (GDTs)
- Current calibration output (SC version) ensures easy and accurate parallel connection of multiple load cells

Optional

- ATEX and FM certified versions are available for use in potentially explosive atmospheres
- Multi-interval and multiple range versions available
- Imperial capacities (25k, 50k, 100k, 200k lbs) not OIML approved

APPLICATIONS

- Truck and rail weighbridges
- Silo and hopper weighing
- · Process weighing











DESCRIPTION

The Model CSP is a multi-column, low profile, stainless steel compression load cell. The unique four column design offers excellent insensitivity to eccentric loads while maintaining accuracy.

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

The fully leak-tested welded construction, advanced cable entry, and built-in surge protection tubes ensure that this product can be used successfully in demanding environments.

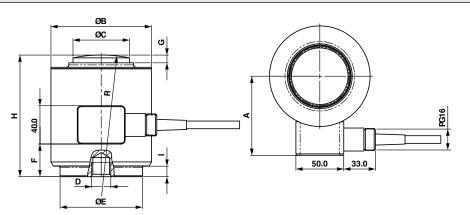
This product meets the stringent Weights and Measures requirements throughout Europe.

OUTLINE DIMENSIONS in millimeters

Cable specifications Standard Cable length 20 m Excitation + Green Excitation - Black Output + White Output - Red Shield Transparent

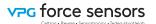
Cable screen is not connected to load cell body. Performance may be affected if load cell cables are shortened.





Capacity	Α	В	C	D	E	F	G	Н	-	R			
CSP-M													
10-25 t	63	72	32	M12 x 8 Deep	57	13	7	83	2	150			
40–60 t	83	105	59	M20 x 20 Deep	82.5	35	8	127	11	150			
100 t	107	150	80	M20 x 20 Deep	124	70	22	185	20	430			
CSP													
10-50 klb	63	72	32	1/2" x 11 Deep	57	13	7	83	2	150			
100 klb	83	105	59	3/4" x 20 Deep	82.5	35	8	127	11	150			
200-30 klb	107	150	80	3/4" x 20 Deep	124	70	22	185	20	430			
500 klb	122	167	94	3/4" x 20 Deep	136	91	15	228	25	432			

Celetron



Compression Load Cell

SPECIFICATIONS					
PARAMETER		UNIT			
Standard capacities (E _{max})	10(2), 25,	t klb			
Accuracy class according to OIML R-60/NTEP	NTEP IIIL	NTEP IIIL	C3	C4	
Maximum no. of verification intervals	10000	3000	3000	4000	
Minimum verification interval (V _{min=} E _{max/} Y) ⁽³⁾	E _{max} /5200	E _{max} /29000	E _{max} /12,500	E _{max} /12,500	
Minimum verification interval, type MR			E _{max} /17,500	E _{max} /17,500	
Rated output (=S)		±mV/V			
Rated output tolerance		±mV/V			
Zero balance		mV/V			
Total error	0.02	0.05	0.023	0.017	±% FSO
Nonrepeatability	0.01	0.01	0.01	0.009	±% FSO
Zero return	0.015	0.0167	0.0167	0.0125	±% applied load
Creep error (30 minutes)	0.05	0.035	0.0245	0.0184	±% applied load
Temp. effect on min. dead load output	0.00144	0.0027	0.0011	0.0011	±% FSO/°C
Temp. effect on min. dead load output, type MR			0.0008	0.008	±% FSO/°C
Temperature effect on sensitivity	0.00144	0.00144	0.001	0.0007	±% applied load/5
Maximum safe static overload		% E _{max}			
Ultimate static overload		% E _{max}			
Maximum safe side load		% E _{max}			
Excitation voltage		V			
Excitation recommended		V			
Input resistance		Ω			
Output resistance		Ω			
Insulation resistance		ΜΩ			
Compensated temperature range		°C			
Operating temperature range		°C			
Storage temperature range		°C			
Element material					
Sealing (DIN 40.050 / EN60.529)					

^{(1) 100} t only has C1 grade of OIML

FSO-Full Scale Output

SC-version: The rated output and the output resistance are balanced in such a way, that the output current is calibrated to within 0.05% of a reference value. This allows easy parallel connection of the load cells.

All specifications subject to change without notice.

^{(2) 10, 300, 500} klb are not NTEP approved

⁽³⁾ Approval limit: Class III V_{min}=E_{max}/10000 (0.0014%Of FSO/°C); Class IIIL V_{min}=E^{max}/30000 (0.0014%Of FSO/°C)



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