

## Single-Column Compression Cell

### FEATURES

- Capacities: 6 to 280 t
- Low profile design
- Sealing: IP66 (EN 60.529)
- Trimmed output ensures the easy and accurate parallel connection of multiple load cells
- Specially designed mounting arrangements are available for vessel weighing

### APPLICATIONS

- Vessel weighing
- High capacity platforms
- Tank and silo
- Process weighing

### DESCRIPTION

The Model KSR is a sealed, single column, compression load cell.

This product is suitable for high capacity platform scales and level control or process weighing in general.



A reliable sealing and mechanical protection of the strain gage area is ensured by the use of stainless steel diaphragms and an epoxy coated alloy steel housing, both of which are cemented to the measuring element.

SPECIFICATIONS			
PARAMETER	VALUE		UNIT
Standard capacities ( $E_{max}$ )	6, 13, 28, 60, 130, 280		t
Accuracy class according to type designation	Non-Approved – R2	Non-Approved – R1	
Rated output (FSO)	1.5		mV/V
Rated output tolerance	0.008		±mV/V
Zero balance	1.5		±% FSO
Combined error	0.200	0.1000	±% FSO
Minimum dead load output return	0.0700	0.0500	±% FSO
Creep error (30 minutes)	0.0800	0.0600	±% FSO
Creep error (20–30 minutes)	0.0200	0.0150	±% FSO
Temperature effect on minimum dead load output	0.025	0.025	±% FSO/5°C
Temperature effect on sensitivity	0.2500	0.2500	±% FSO/5°C
Minimum dead load	0		% $E_{max}$
Maximum safe overload	120		% $E_{max}$
Ultimate overload	300		% $E_{max}$
Maximum safe side load	10		% $E_{max}$
Deflection at $E_{max}$	0.35 / 0.53 / 0.80 / 1.22 / 1.85 / 2.67		mm
Excitation voltage	5 to 12		V
Maximum excitation voltage	15		V
Input resistance	275±30		Ω
Output resistance	245±0.2		Ω
Insulation resistance	≥50		MΩ
Compensated temperature range	-10 to +40		°C
Operating temperature range	-20 to +70		°C

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<b>Storage temperature range</b>	-30 to +80	°C
<b>Element material (DIN)</b>	Tool steel	
<b>Finish</b>	Epoxy painting	
<b>Sealing (DIN 40.050 / EN60.529)</b>	IP66	

FSO—Full Scale Output

**Mounting:**

Correct mounting of the load cells is essential to ensure optimum accuracy and performance. Further information is available upon request.

All specifications subject to change without notice.

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