GEFRAN

CU COMPACT LOAD CELL FOR COMPRESSION APPLICATIONS



Main features

• Range of measurement: from 50 to 1.000 kg

Accuracy class: 0,2%

All stainless steel construction

· Corrosion resistant

• Grade of protection: IP67 (DIN 40050)

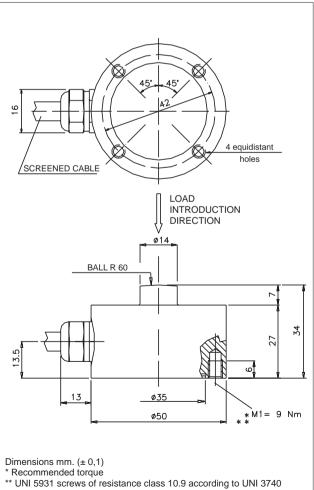
· Compact size

The CU range of load cells are designed for the measurement of static or dynamic loads in compression. All the transducers are calibrated as load cells in units of mass (Kg). The CU series is supplied for nominal loads from 50Kg to 1t. This model has an IP67 protection degree so it can be used in aggressive atmospheres often found in the chemical industries. The transducer body is machined from a single piece of stainless steel with no welding. This means that it is highly resistant to mechanical shock and vibration. The compact size means that these cells can be placed in positions that are difficult to acess and where little space is available.

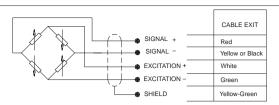
TECHNICAL DATA

Accuracy	0,2%	
Nominal full scale load (Ln)	501.000 kg	
Nominal output at FSO	2mV/V	
Output tolerance at Ln	<± 0,2% FSO	
Combined errors: Non linearity Histeresis, Repeatibility	< ± 0,2% FSO	
Creep (after 30 min. at Ln)	< ± 0,06% FSO	
Zero load out of balance signal	< ± 1% FSO	
Thermal drift in Sensitivity compensated zero calibration	< ± 0,01% FSO°C < ± 0,01% FSO°C	
Nominal input resistance	350 Ohm	
Nominal output resistance	350 Ohm	
Isolation resistance	> 10 GOhm	
Nominal supply voltage	10 V	
Maximum supply voltage	15 V	
Compensated temperature range	-10+50°C	
Maximum temperature range	-20+60°C	
Storage temperature range	-30+80°C	
Permitted static load	130% Ln	
Permitted dinamic load	100% Ln	
Maximum applicable load	150% Ln	
Rupture load	> 300% Ln	
Maximum elastic deformation at Ln	< 0,2 mm	
Grade of protection (DIN40050)	IP67	
Electr. connections screened cable	4x0,25 / 5 m.	
Elastic element material	Stainless steel	

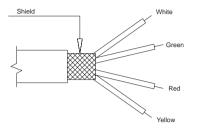
MECHANICAL DIMENSIONS



ELECTRICAL CONNECTIONS

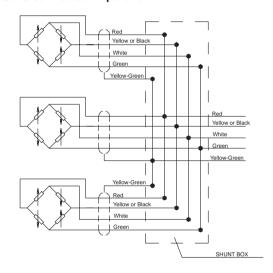


4x0.25 Screened cable



* The screen is isolated from the transducer body. It is recommended that the ground is connected at the instrument end.

Cells connected in parallel



In systems that use several cells, the parallel connection automatically sums the loads on each individual cell.

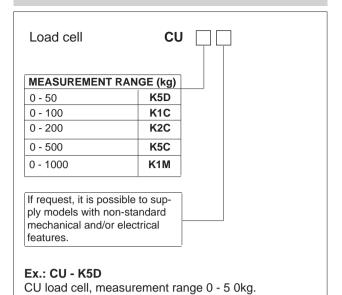
Using this method of measurement, the maximum load will be the sum of the loads on the individual cells and the sensitivity will be the average value of these cells. It is important that the user ensures that no cell is stessed beyond its maximum rating under any load condition.

CONVERSION TABLE

Kg	N	Lb
1	9.807	2.205
0.102	1	0.225
0.454	4.448	1

GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice.

ORDER CODE



GEFRAN spa

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