



Compression Load Cell CL (CL-Ex)

NEW hygienic (aseptic) compression load cell types CL and CL-Ex in EHEDG compliant design. These robust digital compression load cells are produced in electropolished stainless steel and hermetically sealed to IP68 for hygienic weighing installations, installations in tough environments and general process weighing. The load cells can be supplied with a hygienic base plate in AISI316. The compression load cell type CL-Ex can be used in ATEX (Ex) and IECEx applications (Zone 1, 2, 21 and 22).

Type:	CL (Non-ATEX) CL-Ex (ATEX)
Capacity (E _{max}):	50, 100, 150, 250, 500, 1000, 1500, 2000, 3000, 4000, 5000 kg
Accuracy:	Industrial 0.10%, Precision 0.05%, High Precision 0.025%
Overload Tolerance:	Up to 500% of rated capacity

Do you need help?

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Special Features

EHDG compliant hygienic (aseptic) design without gaps or edges for easy cleaning to minimize the risk of bacteria growth

Developed and manufactured in Denmark

Low profile and hygienic design

High tolerance of up to 500% overload

Robust capacitive technology

Hermetically sealed to IP68

Electropolished stainless steel 1.4542 (17-4 PH)

Laser welded with Duplex 1.4462 stainless steel

ATEX and IECEx certified (Zone 1, 2, 21, 22)

Easy mechanical and electrical installation

High accuracy, High resolution

Capacity (Emax): 50, 100, 150, 250, 500,

1000, 1500, 2000, 3000, 4000, 5000 kg

Accuracy: Industrial 0.10%, Precision 0.05%,

High Precision 0.025%

Load cell cable length up to 100 meters

Load cell calibration independent of cable length

Load cell cable replaceable on-site

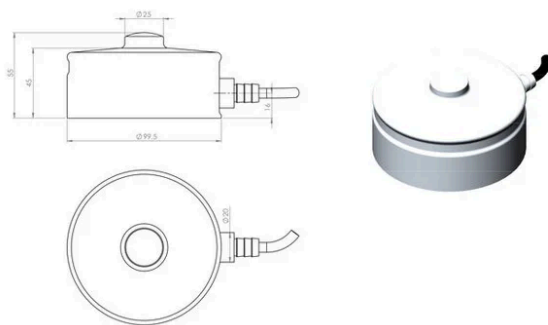
Withstands welding voltages and ESD

Can be used in both ATEX / IECEx and non-ATEX installations

Can be supplied with Mud resistant and

Halogen free cables for offshore installation

Dimensions (mm)



Specifications

Parameter	Unit	0.10%	0.05%	0.025%
Rated capacity (E_{max})	kg	50, 100, 150, 250, 500, 1000, 1500, 2000, 3000, 4000, 5000		
Safe overload limit	% of E_{max}	200 to 500		
Safe sideload limit	% of E_{max}	300 to 1000		
Minimum dead load	% of E_{max}	0		
Combined accuracy	% of E_{max}	0.100	0.050	0.025
Repeatability	% of E_{max}	0.030	0.025	0.020
Hysteresis	% of E_{max}	0.055	0.040	0.020
Creep 30 min.	% of E_{max}	0.060	0.040	0.040
Temperature effect on zero	% / 10°C	0.060	0.055	0.055
Temperature effect on sensitivity	% / 10°C	0.060	0.055	0.055
Compensated temperature range	°C	-10 to 50		
Operating temperature range	°C	-40 to +70 (100*)		
Deflection at E_{max}	mm	max 0.10		
Measuring rate	Hz	500		
Supply	Vdc	24Vdc ±5%		
Internal resolution	Bit	24		
Material		Stainless Steel 17-4 PH and AISI 316		
Protection		IP68		
Cable		6 meter standard coaxial RG-58 (Ø6mm) with BNC connector		
Maximum cable length	m	100		
Weight	kg	2.0		
Output options		EtherNet/IP, PROFINET, EtherCAT, Profibus DP, Modbus TCP/IP, DeviceNet, RS485, 4-20mA, 0-10Vdc		

* only for non-ATEX and with Teflon load cell cable



Applications

Tank weighing
Process weighing
Big-bag equipment
Filling and dosing
Offshore
Level measurement
Platform scales
Hopper scales
Heavy duty applications
Belt scales

Options

ATEX and IECEx (Zone 1, 2, 21, 22) version type CL-Ex
ATEX II 2G Ex ia IIC T6 Gb / ATEX II 2D Ex ia IIIC T85°C Db
Standard and hygienic base plate available
Load cell cable length 10, 20, 50 or 100 meters
Mud resistant and Halogen free cables for offshore installation
Special PE load cell cable available for freezing low temperature (can be used down to -50 degrees Celsius)
Special Teflon load cell cable available for very high temperature (can be used up to 100 degrees Celsius)