Compression Load Cell DMC (DMC-Ex) 125

Capacitive load cells with integrated lift-off protection (patented) designed for large capacities such as process weighing in areas with seismic activity and outdoor silos. The robust digital load cells are made of stainless steel and hermetically sealed (IP68) for hygienic installations as well as installations in harsh environments and general process weighing. The load cells are also made in hygienic (aseptic) design according to EHEDG guidelines. Load cell type DMC-Ex can be used in ATEX (Ex) and IECEx applications (zones 1, 2, 21 and 22).

Type:	DMC 125 (Non-ATEX) DMC-Ex 125 (ATEX)
Capacity (Emax):	6000, 8000, 10000, 12000, 15000, 20000 kg
Accuracy:	Industrial 0.10%, Precision 0.05%, Hig
Overload Tolerance:	Up to 300% of rated capacity

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Do you need help?

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Special Features

Compression load cell with integrated lift-off protection (patented load cell design)

EHEDG 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 300% 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): 6000, 8000, 10000, 12000, 15000, 20000 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

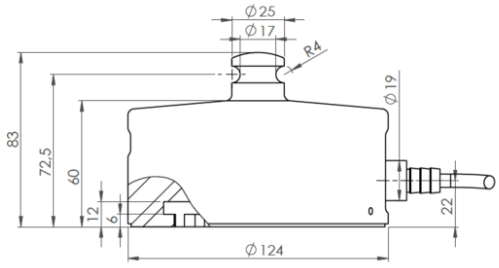
Load cell cable replaceable on-site

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)



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Specifications

Parameter	Unit	0.10%	0.05%	0.025%*
Rated capacity (E_{max})	kg	6000, 8000, 10000, 12000, 15000, 20000		
Safe overload limit	% of E_{max}	up to 300		
Safe sideload limit	% of E_{max}	up to 300		
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	0.050	0.050
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 load cell cable length	m	100		
Weight	kg	8.5 ***		
Output options		EtherNet/IP, PROFINET, EtherCAT, Modbus TCP/IP, Profibus DP, DeviceNet, RS485, 4-20mA, 0-10Vdc		

* 6, 8, 10 ton capacity

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

*** incldluding special base plate with lock

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Applications

Outdoor silos

Tank weighing

Process weighing

High shear mixers

Big-bag equipment

Filling and dosing

Offshore

Installations in seismic area

Level measurement

Platform scales

Hopper scales

Heavy duty applications

Options

ATEX and IECEx (Zone 1, 2, 21, 22) version type DMC-Ex

ATEX II 2G Ex ia IIC T6 Gb / ATEX II 2D Ex ia IIIC T85°C Db

Standard base plate available

Mounting top

Customized top

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)

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