



ATEX Compression Load Cell DMA

Robust digital ATEX certified compression load cell produced in stainless steel and hermetically sealed to IP68 for hygienic weighing installations, installations in tough environments and general process weighing. The DMA compression load cell can be used in ATEX (Ex) and non-ATEX applications

Type:	DMA (ATEX) DM (Non-ATEX)
Capacity (Emax):	6000, 8000, 10000, 15000, 25000, 50000kg
Accuracy:	Industrial 0.10%, Precision 0.05%
Overload Tolerance:	Up to 400% of rated capacity

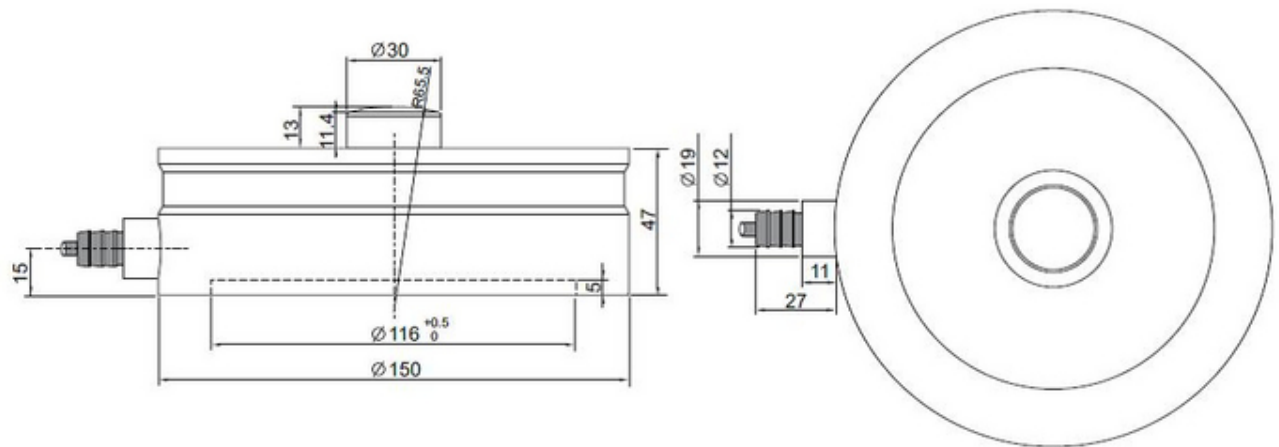
- Made in Denmark
- ATEX certified (Zone 1, 2, 21, 22)
- Robust capacitive technology
- High tolerance of up to 400% overload
- Stainless steel 1.4542 (17-4 PH)
- Hermetically sealed to IP68
- Laser welded with Duplex 1.4462 stainless steel
- Low profile and hygienic design
- Can be supplied with Mud resistant and Halogen free cables for offshore installation
- Withstands welding voltages and ESD
- Cable length up to 100meters

- Capacity (Emax): 6000, 8000, 10000, 15000, 25000, 50000kg
- Accuracy: Industrial 0.10%, Precision 0.05%
- Load cell cable replaceable
- Pre-calibrated with signal in kg or N
- Calibration independent of cable length
- Easy mechanical and electrical installation

- Can be used in both ATEX and non-ATEX installations
- [Digital Compression Load Cell Type DM Dimensions PDF](#)
- [4000 Generation ATEX Certificate SEV07 ATEX 0150 \(GERMAN\) PDF](#)
- [4000 Generation ATEX Certificate SEV07 ATEX 0150 \(ENGLISH\) PDF](#)
- [DM DMA Compression Load Cell STEP 3D CAD File \(right click -> "Save Link As..."\)](#)
- [DM DMA with Base Plate JPG](#)
- [FD DM DMA Base Plate Dimensions PDF](#)
- [FD DM DMA Base Plate STEP \("right click -> "Save Link As..."\)](#)
- [Guideline Correct Mounting of BNC Connector \(UK\) PDF](#)
- [VIDEO - Correct Mounting of BNC Connector](#)

Digital Compression Load Cell – Type DM

Dimensions (mm)



Parameter	Unit	0.10%	0.05%
Rated capacity ($E_{\max}$)	kg	6000, 8000, 10000, 15000, 25000, 50000	
Safe overload limit	% of $E_{\max}$	200 to 400	
Safe sideload limit	% of $E_{\max}$	200 to 400	
Minimum dead load	% of $E_{\max}$	0	
Accuracy	% of $E_{\max}$	0.100	0.050
Repeatability	% of $E_{\max}$	0.030	0.025
Hysteresis	% of $E_{\max}$	0.055	0.040
Creep 30 min.	% of $E_{\max}$	0.060	0.040
Temperature effect on zero	% /10°C	0.060	0.055
Temperature effect on sensitivity	% /10°C	0.060	0.055
Compensated temperature range	°C	-10 to 50	
Operating temperature range	°C	-50 to 70 (100*)	
Deflection at $E_{\max}$	mm	max 0.10	
Measuring rate	Hz	500	
Supply	Vdc	24Vdc $\pm$ 5%	
Internal resolution	Bit	24	
Material		Stainless Steel 17-4 PH and AISI 316	
Protection		IP68	
Cable		6meter standard coaxial RG-58 (Ø6mm) with BNC connector	
Maximum load cell cable length	m	100	
Weight	kg	8.0	
Output options		EtherNet/IP, PROFINET, EtherCAT, Modbus TCP/IP, Profibus DP, DeviceNet, RS485, 4-20mA, 0-10Vdc	

*** when equipped with Teflon cable**

- Tank weighing
- Process weighing
- Level measurement
- Filling and dosing
- Large Vessels
- Offshore applications
- Heavy duty applications

- ATEX (Zone 1, 2, 21, 22) version type DMA
- ATEX II 2G Ex ia IIC T6 / ATEX II 2D Ex iaD 21 T85°C
- Base plate available
- Load cell cable length 10, 20, 50 or 100meters
- 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)

