

## Compression Load Cell GDS100

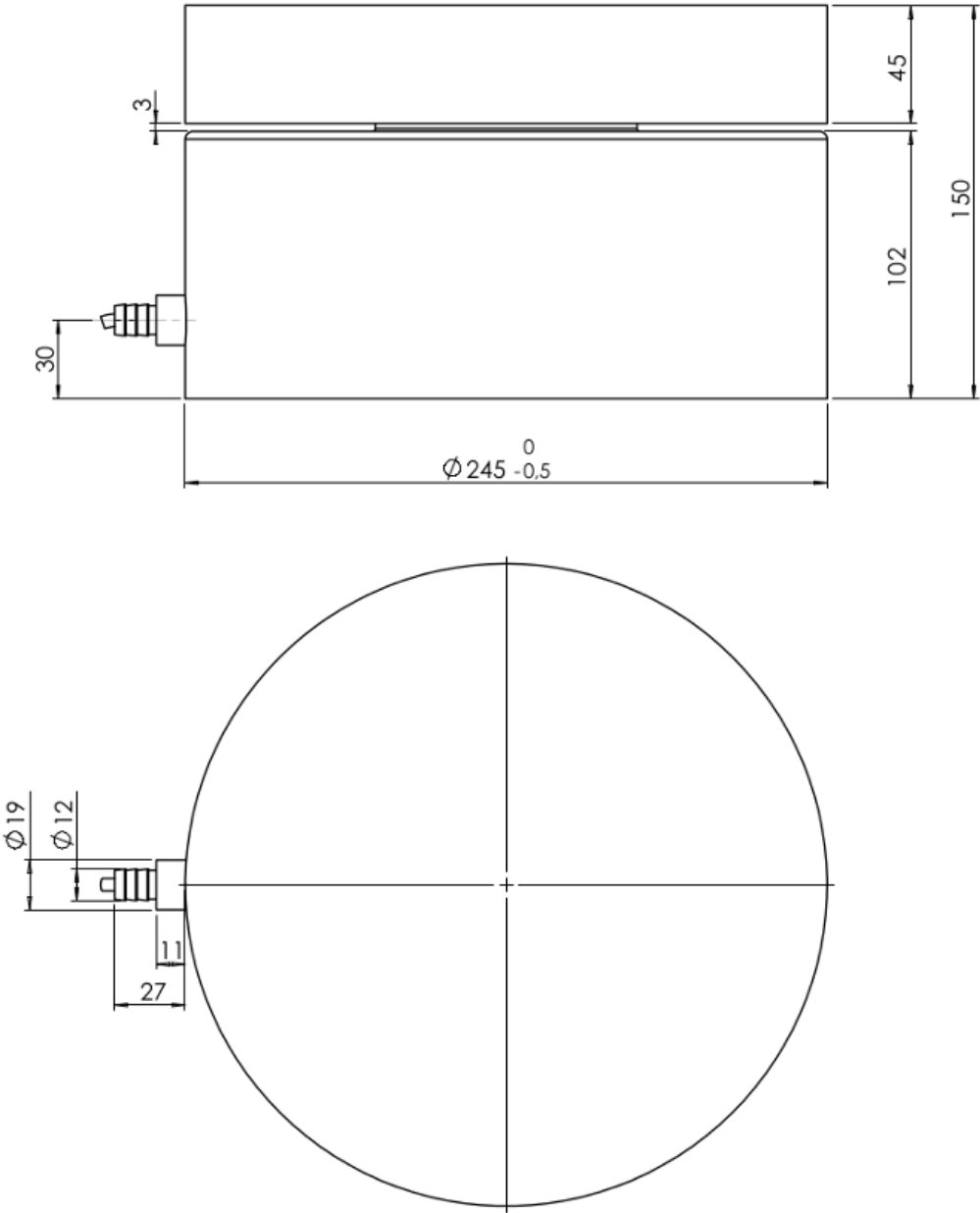
Robust digital heavy duty compression load cell produced in stainless steel and hermetically sealed to IP68 for installation under large silos, tanks, vessels and heavy duty applications

Type:	GDS100
Capacity (Emax):	100tons
Accuracy:	Industrial 0.25%
Overload Tolerance:	Up to 300% of rated capacity

- Made in Denmark
- Robust capacitive technology
- Patented high reliability capacitive sensor
- High tolerance of up to 400% overload
- Stainless steel 1.4542 (17-4 PH)
- Hermetically sealed to IP69K
- Laser welded with Duplex 1.4462 stainless steel
- Withstands welding voltages and ESD

- Capacity (Emax): 100tons
- Accuracy: Industrial 0.25%
- Cable length up to 100meters
- Load cell cable replaceable
- Pre-calibrated with signal in kg or kN
- Calibration independent of cable length
- Easy mechanical and electrical installation

- [Digital Compression Load Cell Type GDS100 Dimensions PDF](#)
- [GDS100 Compression Load Cell STEP 3D CAD File \(right click -> "Save Link As..."\)](#)
- [Heavy duty lift-off protection for 100ton compression load cell PDF](#)
- [Guideline Correct Mounting of BNC Connector \(UK\) PDF](#)
- [VIDEO - Correct Mounting of BNC Connector](#)



Parameter	Unit	0.25%
Rated capacity ( $E_{max}$ )	ton	100
Safe overload limit	% of $E_{max}$	300
Safe sideload limit	% of $E_{max}$	200
Combined accuracy	% of $E_{max}$	0.250
Repeatability	% of $E_{max}$	0.080
Hysteresis	% of $E_{max}$	0.080
Creep 30 min.	% of $E_{max}$	0.080
Temperature effect on zero	% /10°C	0.100
Temperature effect on sensitivity	% /10°C	0.100
Compensated temperature range	°C	-10 to 50
Operating temperature range	°C	-50 to 70 (100*)
Deflection at $E_{max}$	mm	0.10
Measuring rate	Hz	200
Supply	Vdc	24Vdc $\pm$ 5%
Internal resolution	Bit	24
Material		Stainless Steel 17-4PH and AISI316
Protection		IP68
Cable		6meter standard coaxial RG-58 (Ø6mm) with BNC connector
Maximum cable length	m	100
Weight	kg	65
Output options		EtherNet/IP, PROFINET, Profibus DP, Modbus TCP/IP, DeviceNet, RS485, 4-20mA, 0-10Vdc

\* with Teflon cable

- Silo weighing
- Process weighing
- Heavy duty applications
- Level measurement
- Offshore applications

- Load cell cable length 10, 20, 50 or 100meters
- 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)
- Customized versions available