

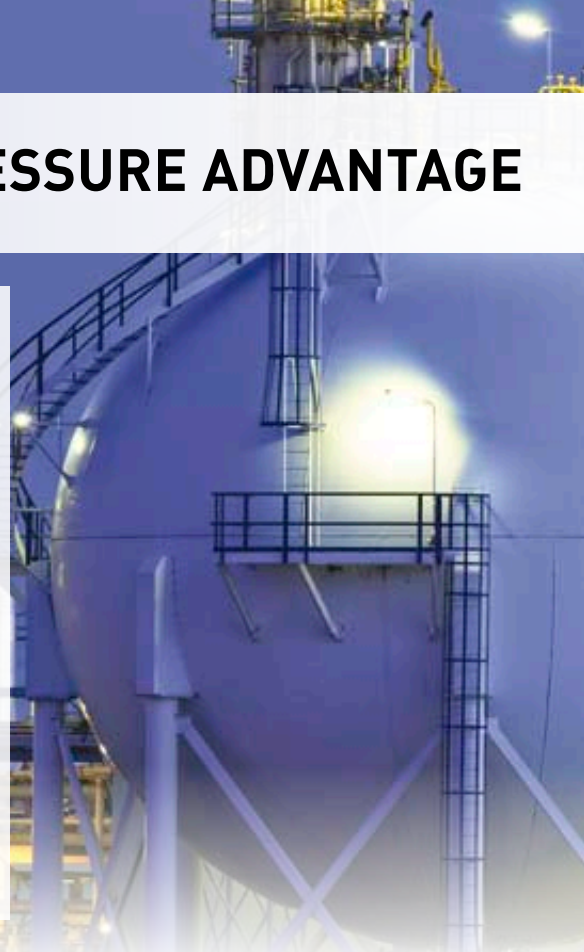


ELECTRO-MECHANICAL PRESSURE ADVANTAGE

Pressure sensor technology is critical when pressure monitoring for higher plant security or pressure control for higher functionality are needed in an application.

Electro mechanical pressure switches are used to connect and disconnect electronic circuits depending on the operating pressure. Norgren's pressure switches deliver safe and reliable minimum pressure monitoring and offer the advantages of automatic switch off and pressure limit warnings.

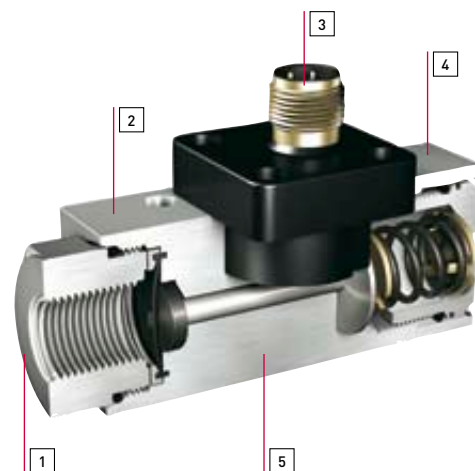
The life span and accuracy of mechanical pressure switches depends on the frequency and peaks of pressure changes, number of load cycles and the influence of temperature.



CHOOSING YOUR EQUIPMENT

18D ROBUST AND COMPACT PRESSURE SWITCH

- 1 High functionality and versatility**
Suitable for many pneumatic and hydraulic applications with operating pressures.
- 2 Special solutions**
Low temperature version with anodised housing to enable indoor and outdoor applications – resulting in a higher functionality for our customers.
- 3 Very flexible**
Various electronic and process connections to satisfy customer requirements.
- 4 Additional approvals and versions**
Versions with Shipping approvals – suitable for all kind of shipping industries.
- 5 Robust and compact design**
High over pressure safety resulting in higher plant security in case of pressure peaks or malfunction.
Shockproof up to 15g with an accuracy of +/- 3%. Especially important for mobile applications and rough environments.



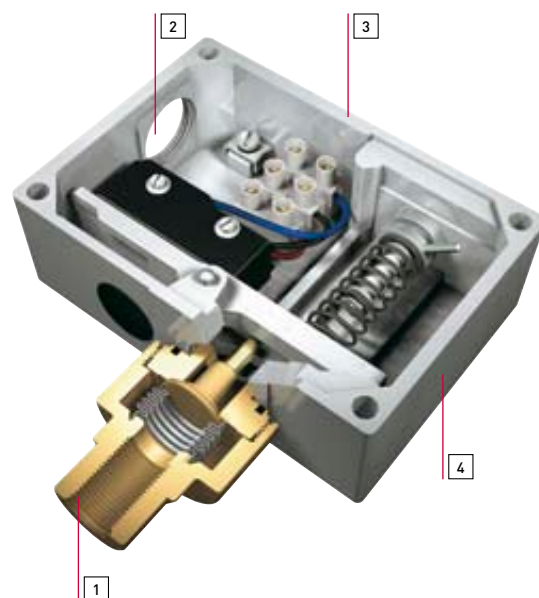
Model	Pressure range	Temperature* Fluid / Ambient	Repeatability	Protection	Approvals
Pneumatic	-1 ... 30 bar	0 ... 80 °C	±3%, for vacuum ±4% of final value (depending on regulating pressure)	IP65 for DIN EN 175301-803 IP67 (M12 x 1)	For Ex-applications conforms to ATEX 100a: Zone 2 category ATEX 3G (gases) Zone 22 category ATEX 3D (dusts) TÜV (technical inspection agency) approval: EX 8 03 01 11122 007
Hydraulic	5 ... 420 bar	-25 ... 80 °C			

*Please contact our technical service for use below +2°C (+36°F).



20D ROBUST PRESSURE SWITCH WITH HIGH ACCURACY

- 1 Great variety of technology advantages**
Can be operated with neutral, aggressive, liquids and gaseous fluids in many industries with different operating pressures.
High repeatability: +/- 1% resulting in higher quality.
- 2 Very flexible and modular**
Possibilities for different port sizes and electronic connections.
- 3 Special versions and solutions**
Ex, flange versions, pneumatic signal option, power plant versions - Ideal for deployment in power plants, process technology and many other industrial applications.
- 4 High versatility**
Options for different material combinations.



Model	Pressure range	Temperature* Fluid / Ambient	Repeatability	Protection	Approvals
Pneumatic	0 ... 0,6 bar	-10 ... 75 °C	±1% of final value (depending on regulating pressure)	IP65	For Ex zones 1 and 2 (gases) as well as Ex zones 21 and 22 (dusts) category II2G, type of protection EEx de IIC T6
Hydraulic	5 ... 420 bar	-10 ... 75 °C		IP65 (DIN 40050)	
Allfluid	-1 ... 63	-10 ... 75 °C			

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