

Electronic Pressure Switch

PBS



Features:

- Electronic pressure switch with display for monitoring pressure in liquids and gases
- Precise sensor technology with stainless steel membrane
- United of pressure value in display can be switched
- Min/max memory
- Password protection



Description:

The PBS is an electronic pressure switch, pressure transmitter and display in one. It is available with up to two switching output, analog output and IO-Link in a single device.

Its intuitive configuration via three large pushbuttons and display facilitates operation. The housing can be rotated in two ways. This means that the display and electrical connection can be aligned to match the specific installation situation.

The PBS can be utilized in a wide range of applications due to its gauge pressure measuring ranges between 0 bar - 1 bar and 0 bar - 600 bar. In addition, absolute pressure and compound measuring ranges are available.

The PBS features a fully welded stainless steel membrane, making it suitable for use with a host of corrosive media. Numerous standard process connections make adapters redundant in most cases. In addition, a flush-mounted membrane is available for pressure measurement in heterogeneous liquids.

Applications:

- Monitoring cooling lubricant
- Measuring pressure, level, and temperature in machine hydraulics
- Monitoring of cylinder end position and press travel
- Monitoring of press force

Technical Data Overview

Device type	Pressure switch
Measuring ranges Gauge pressure Absolute pressure Compound pressure	0 bar... 1 bar up to bar... 600 bar 0 bar... 1 bar up to 0 bar... 25 bar -1 bar... 0 bar up to -1 bar... +24 bar
Pressure unit	Bar, MPa, psi and kg/cm ²
Accuracy	≤ ± 1 % of the span
Setting accuracy of switching outputs	≤ ± 0.5 % of span
Output signal	PNP or NPN switching outputs plus optional IO-Link and analog output
Electrical connection	Round connector M12 x 1

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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