

# Pressure switches

## Electronic pressure switches

UL ENEC A IO-Link

### PSD-4

Electronic pressure switch with display



Accuracy  
(± % of span) ≤ 0.5

Measuring range

- 0 ... 0.4 to 0 ... 1,000 bar
- 0 ... 0.4 to 0 ... 25 bar abs.
- -1 ... 0 to -1 ... +24 bar

Special feature

- Condition monitoring via IO-Link
- Reduction of variants
- Easy installation, good readability
- Parameterisation via 3 buttons

Data sheet PE 81.86

UL ENEC IO-Link

### PSD-4-ECO

Electronic pressure switch with display



Accuracy  
(± % of span) ≤ 1.0

Measuring range

- 0 ... 0.4 to 0 ... 1,000 bar
- 0 ... 0.4 to 0 ... 25 bar abs.
- -1 ... 0 to -1 ... +24 bar

Special feature

- Good/Bad indication through parameterisable digital display (red/green)
- Compact size enables easy installation in confined spaces
- Optimised design makes OEM machine integration easier
- Designed for rough demands to 50g shock and -40 ... +125 °C [-40 ... +257 °F]

Data sheet PE 81.69

UL ENEC IO-Link

### A-1200

With IO-Link, PNP or NPN switching output



Accuracy  
(± % of span) ≤ 0.5 or ≤ 1

Measuring range

- 0 ... 0.4 to 0 ... 1,000 bar
- 0 ... 0.4 to 0 ... 25 bar abs.
- 1 ... 0 to -1 ... +24 bar

Special feature

- IO-Link version 1.1
- Medium temperature to +125 °C
- Multicolour 360° LED status display

Data sheet PE 81.90

# Pressure switches

## Mechanical pressure switches for industrial applications



### PSM01

Compact pressure switch

Setting range ■ -0.85 ... -0.15 bar  
■ 0.2 ... 2 bar to 30 ... 320 bar

Switching function Normally open, normally closed, change-over contact

Material Galvanised steel or stainless steel

Switching power ■ 2 A, AC 48 V  
■ 1 A / 2 A, DC 24 V

Data sheet PV 34.81

EAC



### PSM02

Compact pressure switch,  
settable hysteresis

Setting range ■ -0.85 ... -0.15 bar  
■ 0.2 ... 2 bar to 30 ... 320 bar

Switching function Normally open, normally closed, change-over contact

Material Galvanised steel or stainless steel

Switching power ■ 2 A / 4 A, AC 250 V  
■ 2 A / 4 A, DC 24 V

Data sheet PV 34.82



### PSM03

OEM compact pressure switch

Setting range ■ -0.85 ... -0.15 bar  
■ 0.2 ... 2 bar to 40 ... 400 bar

Switching function Normally open, normally closed, change-over contact

Material Galvanised steel or stainless steel

Switching power ■ 1 A / 4 A, AC 250 V  
■ 1 A / 3 A, DC 24 V  
■ 1 A / 4 A, AC 48 V

Data sheet PV 34.83

EAC



### PSM-520

Pressure switch,  
settable hysteresis

Setting range ■ -0.4 ... +7 bar  
■ 0 ... 5 bar to 6 ... 30 bar

Switching function Normally open, normally closed, change-over contact

Material ■ Bellows: Copper alloy CuSn6 per EN 1652  
■ Process connection: free cutting steel EN1A per EN 10277-3, tin-plated

Switching power 10 A / 6 A, AC 230 V

Data sheet PV 35.01

### PSM-550

Pressure switch, for  
demanding industrial  
applications

Setting range ■ -1 ... 0 and -0.8 ... +5 bar  
■ 0 ... 300 mbar  
■ 0.1 ... 1.1 bar to 10 ... 30 bar

Switching function Change-over contact (SPDT)

Material ■ Bellows / Process connection:  
Copper alloy CuSn6 per EN 1652 or  
stainless steel 1.4401  
■ With NBR diaphragm:  
Process connection: free cutting steel  
EN1A per EN 10277-3, tin-plated

Switching power 4 A / 10 A, AC 230 V

Data sheet PV 35.03

EAC



### PSM-700

Pressure switch,  
high adjustability of switch  
differential

Setting range ■ -1 ... 1.5 bar  
■ 0.2 ... 1.6 bar, 7 ... 35 bar

Switching function Change-over contact (SPDT and DPDT)

Material ■ Measuring element: Stainless steel 316L  
■ Process connection: Stainless steel 316L  
■ Case: Aluminium

Switching power Up to AC 250 V/15 A

Data sheet PV 35.05

## Mechanical pressure switches for the process industry

Due to the use of high-quality microswitches, the mechanical pressure switches are notable for their high precision and long-term stability. Furthermore, direct switching of electrical loads up to AC 250 V/20 A is enabled, while simultaneously ensuring high switch point reproducibility.

The instruments come with a SIL certificate and are thus particularly suited for safety-critical applications. In addition, with their 'intrinsically safe' and 'flameproof enclosure' ignition protection types the pressure switches are ideally suited for permanent use in hazardous areas.

All mechanical pressure switches for the process industry are available with EAC certificate and technical passport.



EAC Ex SIL IEC IECEx Ks CC Ex

### PXS, PXA

Miniature pressure switch

Setting range 1 ... 2.5 to 200 ... 1,000 bar

Ignition protection type Ex ia or Ex d

Switch 1 x SPDT or DPDT

Switching power ■ AC 250 V/5 A  
■ DC 24 V/5 A

Data sheet PV 34.36, PV 34.38



EAC Ex SIL IEC IECEx Ks CC Ex

### PCS, PCA

Compact pressure switch

Setting range -1 ... -0.2 to 200 ... 1,000 bar

Ignition protection type Ex ia or Ex d

Switch 1 x SPDT or DPDT

Switching power ■ AC 250 V/15 A  
■ DC 24 V/2 A

Data sheet PV 33.30, PV 33.31



EAC Ex SIL Ex IEC IECEx Ks CC Ex

### MW, MA

Diaphragm pressure switch

Setting range 0 ... 16 mbar to 30 ... 600 bar

Ignition protection type Ex ia or Ex d

Switch 1 or 2 x SPDT or 1 x DPDT

Switching power ■ AC 250 V/20 A  
■ DC 24 V/2 A

Data sheet PV 31.10, PV 31.11



EAC Ex SIL IEC IECEx Ex CC Ks

### BWX, BA

Bourdon tube pressure switch

Setting range 0 ... 2.5 to 0 ... 1,000 bar

Ignition protection type Ex ia or Ex d

Switch 1 or 2 x SPDT or 1 x DPDT

Switching power ■ AC 250 V/20 A  
■ DC 24 V/2 A

Data sheet PV 32.20, PV 32.22



EAC Ex SIL IEC IECEx Ex CC Ks

### DW, DA

Differential pressure switch

Setting range 0 ... 16 mbar to 0 ... 40 bar,  
static pressure to 160 bar

Ignition protection type Ex ia or Ex d

Switch 1 or 2 x SPDT or 1 x DPDT

Switching power ■ AC 250 V/20 A  
■ DC 24 V/2 A

Data sheet PV 35.42, PV 35.43, PV 35.50



EAC Ex SIL IEC IECEx Ks CC Ex

### APW, APA

Absolute pressure switch

Setting range 0 ... 25 mbar to 0 ... 1.5 bar abs.

Proof pressure 11 bar abs.

Ignition protection type Ex ia or Ex d

Switch 1 or 2 x SPDT or 1 x DPDT

Data sheet PV 35.49, PV 35.48