Pressure sensor and pressure transmitter SPAU

Maximum flexibility!

The sensor SPAU for pressure measurement, pressure monitoring and pressure sensing keeps pressure levels permanently under control, ensuring more productivity and process reliability. As well as quicker system commissioning.

Intelligent pressure measurement
The SPAU is an intelligent pressure sensor with a freely programmable threshold value or window comparator. It has a wide range of functions for non-corrosive gases comprising:
- Network monitoring
- Regulator monitoring
- Vacuum monitoring
- Leak tests
- Object detection
Remote maintenance and parameterisation as well as simple sensor change are also possible via IO-Link.

Unique flexibility
The unique flexibility of the pressure adapter guarantees quick and easy mounting in all installation scenarios. For example, the pressure outlet direction can be freely selected via a modular system at the back and at the bottom and the plug outlet direction M8/M12 can be selected at the top, bottom and at the back. Furthermore, the switchable PNP/NPN current and voltage outputs make it possible to adapt to all control systems.

Easy operation
Thanks to a large, easy-to-read, blue/red LCD display, it is immediately apparent whether the pressure is OK.
Clear 3-key menu navigation: quick to start up and easy to teach via pressure switch point setting.

Sturdy design
The IP65 design enables it to be used in harsh environments.
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### Dimensions

![Dimensions of SPAU-...-T and SPAU-...-F](image)

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### Method of measurement

Piezoresistive pressure sensor

### Installation position

Any

### Media compatibility

Compressed air to ISO 8573-1:2010 [7:4:4]

Inert gases

Lubricated operation possible

### Accuracy of switching output

± 2% FS

### Repetition accuracy

± 0.3% FS

### Rated operating current

Max. 150 mA

### Nominal temperature range

0 ... 50 °C

### Operating voltage range

DC 15 ... 30 V

### Idle current

Typically 35 mA

### Display type

Without LCD (transmitter)

Illuminating LCD, multi-colour (display)

### Overview of features and variants

- **Pressure measuring ranges**
  - 0 ... -1 bar
  - -1 ... 1 bar
  - 0 ... -0.5 bar
  - 0 ... -0.25 bar
  - 0 ... 0.25 bar
  - 0 ... 0.5 bar
  - 0 ... 1 bar
  - 0 ... 2 bar
  - 0 ... 6 bar
  - 0 ... 10 bar
  - -1 ... 10 bar
  - 0 ... 12 bar
  - 0 ... 16 bar

- **Pneumatic ports**
  - G 1/8
  - R 1/8
  - 1/8 NPT
  - R 1/4
  - M5
  - M7
  - Push-in connector 4 mm
  - Push-in connector 6 mm
  - Push-in connector 5/32"

- **Electrical outputs**
  - Output 1: PNP / NPN (switchable) or IO-Link
  - Output 2: PNP / NPN / 0 ... 10 V / 1 ... 5 V / 4 ... 20 mA (switchable)

- **Electrical connections**
  - M8 plug
  - M12 plug

- **Connecting cable (accessories)**
  - Straight socket 2.5 m
  - Angled socket 2.5 m
  - Straight socket 5 m
  - Angled socket 5 m

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