PUM50

OEM
Miniature Pressure Transmitter

- **Compact design**
- **Parts in contact with gas or liquid are made of stainless steel**
- **Measuring ranges: 0...1 / 0...600 bar**
- **Output signals: 4...20 mA / 0...10 V**
- **Accuracy: ± 1% of end value**

Description:

The PU50 miniature pressure transmitter is suitable for use in most general industrial applications, providing long-term, reliable service life. Due to the well-proven technologies and materials used in their construction, these sensors are unaffected by caustic/corrosive vapors and liquids as well as mechanical stress and loads. The pressure port and the measuring cell are welded together, making gaskets or sealants between them unnecessary. The compact design permits their use in confined spaces and in light-weight installations Their technical specifications and economical price also make these sensors ideal for use in OEM applications. Furthermore, these pressure sensors comply with the electromagnetic compatibility (EMC) requirements as per EN 61326

Applications:

PUM50 pressure sensors are suitable for measuring and monitoring almost any liquids or gases.

Typical applications:
– Pneumatics
– Hydraulics
– Pumps and compressors
– Building automation
– Test stands and benches
– General applications in industrial machinery and systems

PKP PROCESS INSTRUMENTS

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Models:

Measuring ranges: 0…1 / 0…600 bar

Output signals: 4…20 mA / 0…10 V

Electrical connection: Plug as per DIN EN 175301-803 Form A, Round plug connector, M12x1, 4-pin

Process connection:

Standard: 1/4” BSP parallel fitting

Optional: 1/2” BSP parallel fitting
1/4” NPT, male thread
1/2” NPT, male thread

Technical Specifications:

Sensor element:

0…1 / 0…6 bar: Piezo-resistive

0…10 / 0…600 bar: Thin film

Max. pressure: 2x upper range end value

Temperature range:

Monitored media (liquid, gas): 0…80 °C

Compensated: 0…80 °C

Ambient: 0…80 °C

Storage: -20…80 °C

Materials:

Parts in contact with monitored media (liquid, gas): Stainless steel 1.4534 and 316L

Housing: Stainless steel 316L, PA

Weight: approx. 80 g

Accuracy: ± 1 % of end value (full scale)

Reproducibility: ± 0.1 % of end value (full scale)

Long-term stability: ± 0.2 % of end value (full scale) (under reference conditions)

Electrical Specifications:

Supply voltage: 8…30 VDC (current output)
14…30 VDC (voltage output)

CE conformity:

Noise immunity: EMC Directive 89/336/EEC interference and noise immunity as per EN 61 326 Limit-value class A and B

PED: Pressure Equipment Directive 97/23/EC (module H)

Protection types: protected against reverse polarity, overvoltage and short circuits

with device plug: IP65

with round plug connector: IP67

Response time: = 4 ms (within 10%…90% of measuring range)

Model Coding:

Order Number: **PUM50. | 1. | 1. | 08G. | R75. | 0**

Miniature Pressure Transmitter OEM design

Output signals:

1 = 4…20 mA, 2-wire
2 = 0…10 V, 3-wire

Electrical connection:

1 = Device plug
2 = Round plug connector, M12x1*

Process connection:

08G = 1/4” BSP parallel fitting (standard)
08N = 1/4” NPT, male thread
15G = 1/2” BSP parallel fitting
15N = 1/2” NPT, male thread

Measuring ranges:

R69 = 0…1 bar
R70 = 0…1.6 bar
R72 = 0…2.5 bar
R73 = 0…4 bar
R74 = 0…6 bar
R75 = 0…10 bar
R76 = 0…16 bar
R78 = 0…25 bar
R79 = 0…40 bar
R80 = 0…60 bar
R81 = 0…100 bar
R82 = 0…160 bar
R84 = 0…250 bar
R86 = 0…400 bar
R87 = 0…600 bar

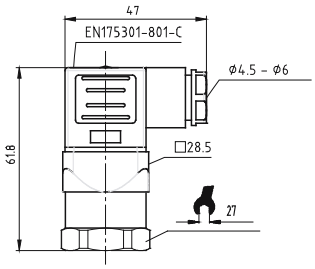
Options:

0 = None
9 = Please specify in writing.

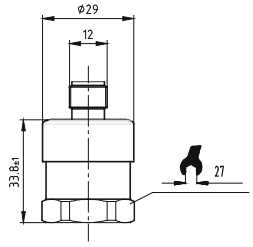
*) matching socket connector not included

Dimensions:

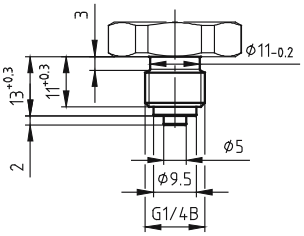
PUM50.x.1…



PUM50.x.2…



G1/4



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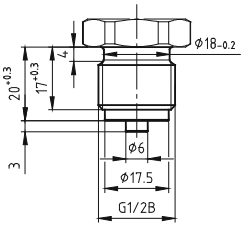

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