PUM50

OEM
Miniature Pressure Transmitter

- **accuracy: ± 1 % FS**
- **wetted parts made of stainless steel**
- **measuring ranges: -50...0 mbar to 0...1000 bar**
- **output signals: 4...20 mA or 0...10 V**
- **compact design**
- **max. temperature 100 °C**

Description:

The PUM50 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.

Typical applications:

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

Application can be found e.g. in the
– Pneumatics
– Hydraulics
– Pumps and compressors
– Building automation
– Test stands and benches
– General applications in industrial machinery and systems

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Models:

Measuring ranges:	-50...0 mbar to 0…1000 bar
Output signals::	4…20 mA 0…10 V
Electr. connection:	angled plug acc. to DIN EN 175301-803 Form A round plug connector M12x1, 4-pin
Process connection:	
Standard:	G 1/4 A acc. to DIN EN ISO 1179-2
Optional:	G 1/2 A acc. to DIN EN ISO 1179-2 1/4" NPT male thread 1/2" NPT male thread

Technical Data:

Sensor element:

-50...0 mbar to 0…6 bar:	piezo resistive
0…10 to 0…1000 bar:	thin film
Max. pressure:	2 x upper range end value

Temperature range	**Standard**	**Extended**
Medium:	0…80 °C	-30...100 °C
Compensated:	0…80 °C	0... 80 °C
Ambient:	0…80 °C	-30...100 °C
Storage:	–20…80 °C	-30...100 °C

Materials:

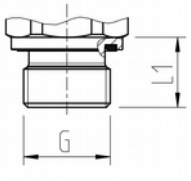
Wetted parts:	stainless steel 1.4534 and 1.4404
Housing:	stainless steel 1.4404, PA
Weight:	approx. 80 g
Accuracy:	± 1 % FS
Reproducibility:	± 0,1 % FS
Long-term stability:	± 0,2 % FS (under reference conditions)

Electrical Data:

Power supply:	8 ... 30 VDC (current output) 14 ... 30 VDC (voltage output)
Protection:	protected against reverse polarity, overvoltage and short circuits
with angled plug:	IP65
with round plug:	IP67
Response time:	≤ 4 ms (within 10% to 90% of the measuring range)

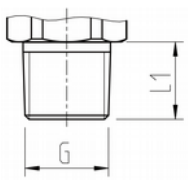
Dimensions:

G-thread (DIN 3852-E)



G	L1
G 1/4 A	14
G 1/2 A	17

NPT-thread



NPT	L1
1/4“	13
1/2“	19

Order Code:

Order number:	**PUM50.**	**1.**	**1.**	**08GA.**	**R75.**	**0**

Miniature Pressure Transmitter
OEM design

Output signals:
1 = 4…20 mA, 2-wire (standard)
2 = 0…10 V, 3-wire

Electrical connection:
1 = angled plug DIN EN 175301-803A
2 = round plug connector M12x1*

Process connection:
08GA = G 1/4 A acc. to DIN EN ISO 1179-2 (standard)
08N = 1/4" NPT male thread
15GA = G 1/2 A acc. to DIN EN ISO 1179-2
15N = 1/2" NPT male thread

Measuring ranges:

relative:

R02 = -50...0 mbar
R04 = -25 ...+25 mbar
R06 = -50...+50 mbar
R08 = -50...+15 mbar
R10 = -50...+20 mbar
R62 = 0...50 mbar
R63 = 0...100 mbar
R64 = 0...160 mbar
R65 = 0...250 mbar
R66 = 0… 400 mbar

absolute:

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
R88 = 0...1000 bar
A69 = 0…1 bar
A70 = 0…1,6 bar
A72 = 0…2,5 bar
A73 = 0…4 bar
A74 = 0…6 bar
A75 = 0…10 bar
A76 = 0…16 bar

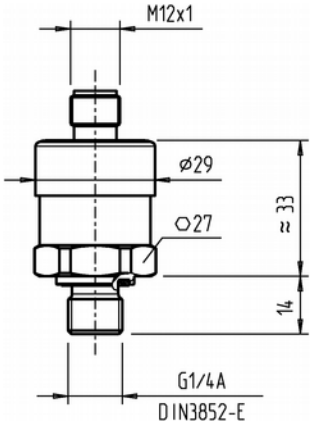
Options:
0 = without
T = extended temperature up to 100 °C
9 = please specify in plain text

Accessory:

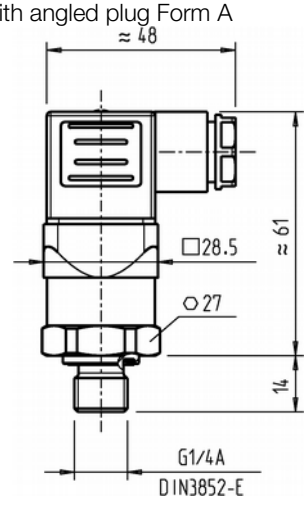
*) plug connector **SM12**, see separate data sheet

Dimensions:

with round plug M12x1



with angled plug Form A



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