

P115

Nöding

Messtechnik



Datasheet OEM Pressure Transmitter P115

PERFORMANCE FEATURES

- Dry ceramic sensor
- Accuracy $\leq 0,5\%$
- Smallest measuring range: 0...100 mbar
- Largest measuring range: 0...300 mbar
- Various electrical connections
- Analog output: 4...20 mA, 2-wires

AREAS OF APPLICATION

- Viscous and pasty media
- Liquid media
- Gaseous media
- Aggressive media
- Bubbling-through method

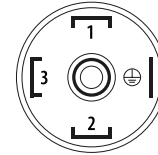
The model P115 is an application-optimized transmitter that is especially suitable as an OEM component. Various electrical connection options allow for easy integration. The protection class IP 67 reliably prevents dust and water from entering the device. The ceramic sensor operates according to the piezoresistive principle and in combination with the stainless steel housing forms a robust and compact sensor. Our modular design concept provides a wide variety of products. Feel free to contact us if you need a customization that is not listed in this datasheet.

TECHNICAL DATA

Measuring range	
Pressure range	See table "Measuring ranges" others on request
Output	
Analog output	4...20 mA 2-wires
Power supply	
20 mA output	9...30 V DC
Signal characteristics	
Accuracy	$\leq \pm 0,5 \% \text{ FS @ } 25^\circ\text{C}$
Long term stability	$\leq \pm 0,5 \% \text{ FS/Year}$
Response time	200 ms - others on request
Switch-on time	< 1 s
Temperature coefficient	
Zero	$\leq \pm 0,03 \% \text{ FS/Kelvin}$
Span	$\leq \pm 0,02 \% \text{ FS/Kelvin}$
Temperature ranges	
Medium temperature	-25...100 °C
Surrounding temperature	-25...80 °C
Storage temperature	-40...85 °C
Electrical protections	
Short-circuit resistance	Permanent
Reverse polarity protection	Protection against reverse polarity, but no function
Electromagnetic compatibility	Interference emissions and immunity acc. to EN 61326
Wetted materials	
Process connection	Stainless steel 1.4404
Sensor	Ceramic Al_2O_3
Sensor seal	FPM (Viton), NBR, EPDM, FFKM (Chemraz / Kalrez)
Surroundings	
Protection type	IP 67
Exemplary weight	
P115-400-G110 (figure p. 1)	Approx. 200 g

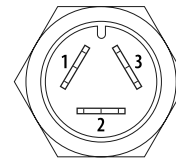
ELECTRICAL CONNECTION

Connector
EN 175301-803A



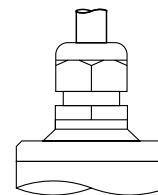
4...20 mA 2-wires
PIN 1: Signal +
PIN 2: Signal -

Quickon-Connector



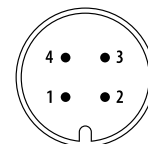
4...20 mA 2-wires
PIN 1: Signal +
PIN 2: Signal -

Cable connection



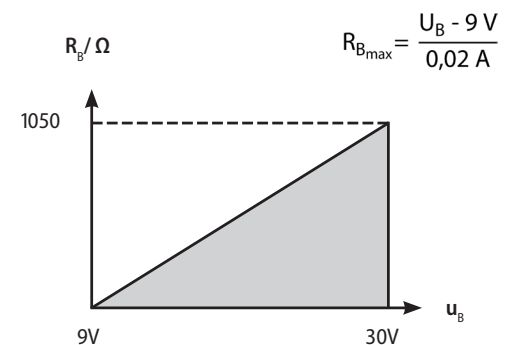
4...20 mA 2-wires
red: Signal +
black: Signal -

M12 Connector



4...20 mA 2-wires
PIN 1: Signal +
PIN 3: Signal -

LOAD



MEASURING RANGES

Measuring ranges	Relative	Overload (bar)
0...100 mbar / 0...25 kPa	00	1
0...160 mbar / 0...16 kPa	01	1
0...200 mbar / 0...25 kPa	B1	1
0...250 mbar / 0...30 kPa	02	1
0...300 mbar / 0...40 kPa	X5	1

ORDERING CODE

Output signal

4 4...20 mA 2-wires

Ranges

Measuring range see table

99 Non-standard range (on request)

Process connection and material

G G 1/2 A a. 11,6 mm drill hole, ISO 228-1, 1.4404

9 Others (on request)

Sensor seal

1 FPM (Viton), standard

2 NBR (Perbuan)

3 EPDM

5 FFKM (Chemraz/Kalrez)

9 Others (on request)

Process connection

1 Connector EN 175301-803A

A Connector M12x1 4-pole

F Quickon-Connector

6 2 m cable

0 5 m cable

H 10 m cable

9 Others (on request)

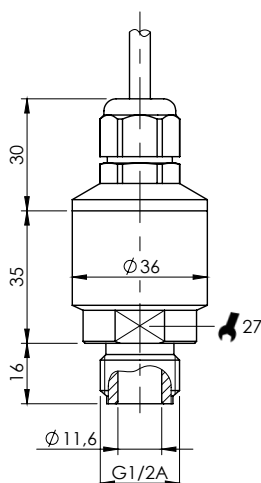
Options

0 Not potted electronics

1 Potted electronics

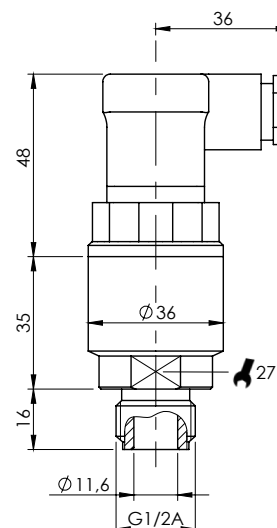
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DIMENSIONS



ELECTRICAL CONNECTION

■ TYPE 0,6,H



■ TYPE 1