

Pressure transducer TP 805



- Compact and robust construction
- Output signal: 4-20 mA; 2-wire
- Pressure: 0 ... 2.5 barg up to 25 barg
- AISI 316 Fitting: 1/2" G or 1/4" G
- Ceramic diaphragm

APPLICATIONS

The pressure transmitter is used for pressure measurements, continuously in real time, of gases and liquids.

DESCRIPTION

Accuracy, reliability, corrosion resistance and mechanical load upper limit, make this top quality pressure transmitter a suitable product for a wide variety of industrial applications.

The transmitter is based on a piezo-resistive sensor for which the ceramic diaphragm fits a stainless steel body to resist to aggressive chemicals. Materials in use and the technology implemented make this sensor particularly resistant to vibrations and mechanical shocks.

Commissioning is easy and fast. The pressure transmitter is factory adjusted to its measuring range and can not be modified on site. It does not require maintenance.

TECHNICAL FEATURES

Pressure ranges	0... 2.5 up to 0 ... 25 barg
Overload limit:	2.5 times the full scale
Accuracy	±0.5 % F.S.
<i>Inclusive: variations on zero point, end of range, linearity, hysteresis and repeatability</i>	
Response time	< 2 ms
Fluid temperature	-15 ... +125 °C
Ambient temperature	-30 ... +85 °C
Temperature incidence	± 0.2 % F.S. / 10 K
<i>Test conditions: At 25 °C</i>	
Output signal	4 ... 20 mA
Power supply	7 ... 33 V DC, 2-wire loop
Protected against short circuit and reverse polarity	
Isolation voltage	500 V DC
Electric protection	Classe III
Connections	Connector DIN; EN 175301-803-A Cable Ø 6 ... 8 mm
Protection	IP 65 (connector DIN mounted)
Materials:	
Body and fitting	AISI 316 L (1.4404)
Seal	FPM
Sensor	Piezo-resistive with ceramic diaphragm Al ₂ O ₃ (96 %)
Connector	Polyamide 50 % GF UL 94 V-0
Mounting:	
Fitting	Male threads: G 1/4" or G 1/2"
Mounting position	Vertical, connector upward (recommended)

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28-06-2018

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Mass	90 g
Agreements	
Electromagnetic compatibility	Directive EN 61326-2-3
EMC additional	Directive EN 50121-3-2
Mechanical Tests & Environmental Tests	Procedures IEC 68-2-27 & IEC 68-2-29
Vibrations, mechanical tests	Procedures IEC 68-2-6

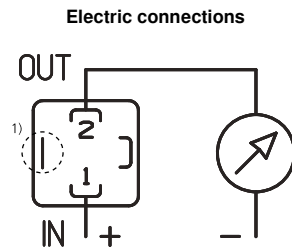
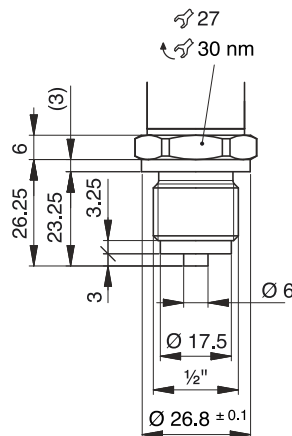
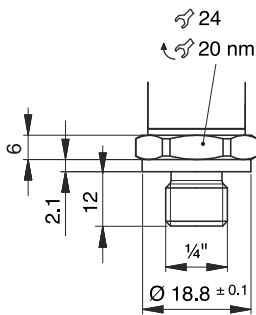
EC Conformity: The instrument meets the legal requirements of the current European Directives

CODE NUMBERS AND REFERENCES

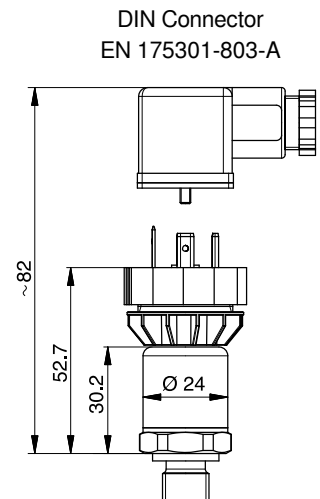
Code	Reference	Measuring range	Fitting
805 021	TP 805-528914-4	0... 2.5 bar	BSP 1/4"
805 024	TP 805-528915-4	0...4 bar	
805 026	TP 805-528917-4	0...6 bar	
805 030	TP 805-528930-4	0...10 bar	
805 036	TP 805-528931-4	0...16 bar	
805 402	TP 805-528914	0... 2.5 bar	BSP 1/2"
805 406	TP 805-528917	0...6 bar	
805 410	TP 805-528930	0...10 bar	
805 416	TP 805-528931	0...16 bar	
805 425	TP 805-528932	0...25 bar	

Other operating ranges: on request.

DIMENSIONS



1 (IN) 2 (OUT)



PRECAUTIONS

- These sensors should be handled by qualified technicians.
- Wet parts must be suitable for the application.
- The pressure limit for overload must be considered and respected.
- Protect the device from the direct action of UV / sunlight.

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Flush diaphragm pressure transmitter TP 805-28



- Compact and heavy duty model
- Relative pressure from -1 up to 60 bar
- Output signal: 4-20 mA
- Stainless steel fitting: BSP 1"
- AISI 316L diaphragm (option: Hastelloy)

APPLICATIONS

Remote pressure values of viscous, pasty, sticky, crystallizing liquids, contaminated fluids, that may clog the fitting of a standard pressure transmitter.

DESCRIPTION

Accuracy, reliability, corrosion resistance and mechanical resistance make this pressure transmitter a suitable product for many industrial applications.

The built-in sensor is a piezoresistive sensor separated from the liquid by a stainless steel diaphragm. All parts and materials in use and the technology implemented make this sensor particularly resistant to vibrations and mechanical shocks.

Installation is quick and easy.

If necessary, it is possible to shift the zero and the range by $\pm 10\%$, without altering the performance. It does not require any maintenance.

Checks must be carried out according to Company's rules or to application.

TECHNICAL FEATURES

Measuring range	-1 ... 60 barg (relative pressure) 0... 60 bar ABS (absolute pressure) <i>See standard scales on page 2</i>
Overload limit	4 times the F.S.
Damaging overload	8 times the F.S.
Accuracy	$\pm 0.2\%$
Long term stability	0.1 % per year
Repeatability	0.05 %
Response time	< 120 ms
Liquid temperature	-40 ... +130 °C
Ambient temperature	-40 ... +80 °C
Temperature incidence	Max. 0.4 % / 10 °C
Humidity acceptance	R.H.: 0 to 98 %, condensing
Output signal	4-20 mA; 2-wire
Power supply	8 ... 36 V DC
Electrical connection	Connector DIN 43650 with PG 9 (\varnothing 6 to 8 mm cable)
Protection	IP 65 (with DIN connector fitted)

Materials:

Diaphragm	AISI 316 L (1.4435) Option: Hastelloy
Body	AISI 304 (1.4301)
Connector	Itamide (Nylon 6)

Mounting:

Fitting	Male thread, BSP 1"
Mass	About 90 g

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Flush diaphragm pressure
transmitter
TP 805-28

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Agreements:

- Directive EN 61326-1 & EN61000-6-2, electromagnetic compatibility

EC Conformity: The instrument meets the legal requirements of the current European Directives.**Options:**

- ATEX version
- Marine Certificate DNV and BR
- Accuracy: 0.16 %
- MODBUS Protocol
- SIL 1 certificate
- Response time less than 30 ms

CODE NUMBER AND REFERENCE

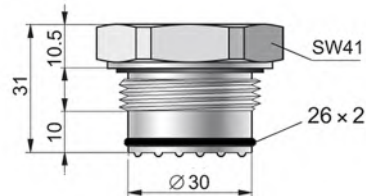
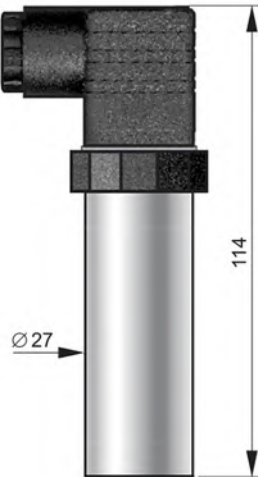
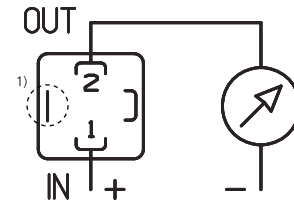
Code	Reference	Description
805 300	TP 805-28	Flush diaphragm transmitter (Scale to be specified)

Standard scales:

• **For relative pressure:**
In barg: 0 to -1; -0.4; -0.1; 0.1; 0.4; 1; 2.5; 6; 10; 16; 25; 60

• **Absolute pressure:**
In bar ABS: 0 to 0.4; 1; 2.5; 6; 10; 16; 25; 60

Other scales: on request

DIMENSIONS [mm]**Electrical connections**

1 (IN) 2 (OUT)

INSTALLATION PRECAUTIONS

- These transmitters should be handled by qualified technicians.
- Wet parts must be suitable with the liquid, application.
- Overload pressure limit must be considered and respected.
- Protect the device from the direct action of UV / sunlight.

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