

# Pressure Transmitter PTMSmart

ARMANO

Pressure range 0 – 25 bar

T09-000-067

## Applications

Pressure transmitter models PTMSmart are suitable for overpressure measurement of liquid and gaseous media from 0 – 25 bar, which do not corrode stainless steel 316L and 304.

Basic version:

### Overpressure 0 – 25 bar

The pressure transmitters are temperature-compensated and provide a calibrated output signal.

## Communication

The communication standard for data interchange with the pressure transmitter is the HART® protocol.

The communication with the pressure transmitter is carried out with a communicator or a PC using a USB/HART® converter and a communication software.

The data interchange with the pressure transmitter enables:

- the identification of the pressure transmitter
- the configuration of the output parameters measuring units, lower range value, upper range value, damping and time constant, characteristic curve
- the reading of the currently measured pressure value of the output pressure and the depiction of the output signal in %
- the adjustment of the output signal to the reference value
- the calibration of the pressure transmitter in relation to the reference pressures

## Construction

The sensor is installed in the pressure connection piece and is surrounded by silicone oil. It is separated from the medium by a thin stainless steel diaphragm. The earth conductor of the plug connector is connected to the case.

## Standard Version

### Construction Type

Installation length: standard

### Process Connection

G ½ B, stainless steel 304

Diaphragm made of stainless steel 316L

### Measuring Cell / Sensor

Placed inside

### Case

Stainless steel, degree of protection IP65

### Pressure Range/Overload

(reference point ambient air pressure during manufacturing)

Overpressure (bar)	Min. set range (bar)	Ratio	Overpressure limit (bar)
25	0.25	100:1	50

### Output signal

4...20 mA 2-wire

### Power supply

7.5...55 V DC

### Load impedance

(U<sub>B</sub> – 7.5 V) / 0.0225 A



### Measuring Accuracy

Better than ±0.1 % FS (including non-linearity, hysteresis and non-repeatability)

### Temperature Ranges

Ambient temperature: –40 / +85 °C (–40 °F to +185 °F)

Medium temperature: –40 / +120 °C (–40 °F to +248 °F)

### Temperature Influence within the Rated Temperature Range

<0.08 % FSO / 10 K

### Reference Temperature

+20 °C (+68 °F)

### Long-term Stability of Zero Point and Span

Better than ±0.1 % p.a.

### Electrical Connection

Plug connector 3-pin + protective contact according to DIN EN 175301-803, angular cable box (without cable). In order to ensure electromagnetic compatibility (EMC), please use a shielded cable (e.g. LP/LiMYCY). Wiring diagram see page 2.

### Position of Installation/Position of Connection

Any

### CE Conformity

EMC-2014/30/EU (EN 61326-1:2013)

RoHS-2011/65/EU (EN 50581:2012)

## Options

Other pressure ranges upon request

[www.armano-messtechnik.com](http://www.armano-messtechnik.com)

ARMANO Messtechnik GmbH

Location Beierfeld • Am Gewerbepark 9 • 08344 Grünhain-Beierfeld  
Tel.: +49 3774 58 – 0 • Fax: +49 3774 58 – 545 • mail@armano-beierfeld.com

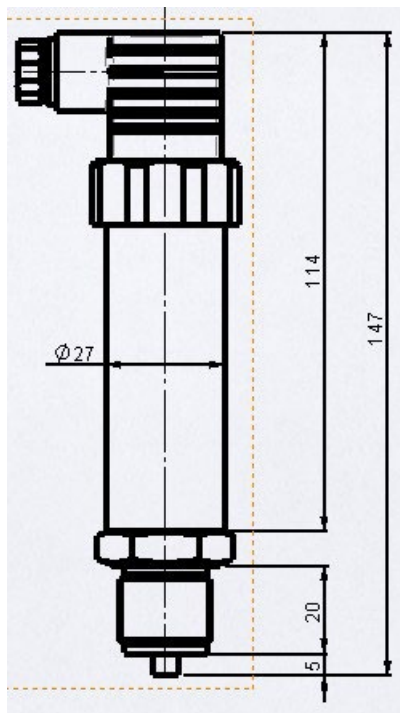
Location Wesel • Manometerstraße 5 • 46487 Wesel-Ginderich  
Tel.: +49 2803 9130 – 0 • Fax: +49 2803 1035 • mail@armano-wesel.com

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Pel/SWü

# Pressure Transmitter PTMSmart

## Case configuration, dimensional data and weights, wiring diagram

### Standard Version

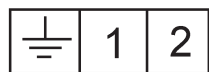


### Weight

Approx. 350 g (0.77 lb)

### Wiring Diagram

2-wire



+UB 0 V/signal

