



Process sensors

# New PT absolute pressure transmitter with different measuring ranges



Pressure sensors



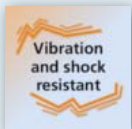
Measuring range 0...1/1.6/4/10 bar absolute and analogue output 4...20 mA

Robust stainless steel measuring cell

Slim, compact design with G 1/4 process connection

Measuring accuracy  $\leq 1\%$ , repeatability  $\leq 0.1\%$

Easy connection via M12 connector



Vibration and shock resistant



IP 67



4...20 mA



## Absolute pressure sensors

As of now, ifm has added absolute pressure sensors to its versatile portfolio in the pressure sensor range. The new PT05 series with robust metal measuring cell, G 1/4 process connection, M12 connector and analogue output is available in the common pressure ranges up to 10 bar.

### Operating principle

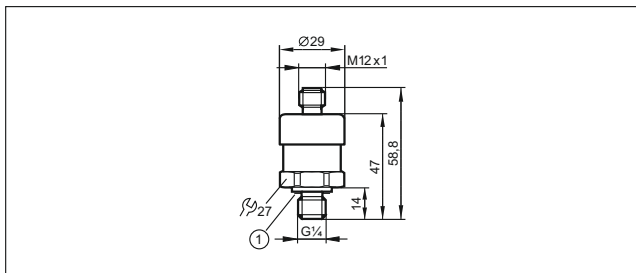
Absolute pressure sensors operate independently of the surrounding air pressure; that is what distinguishes them from sensors working on a relative measurement principle. The measurement is not influenced by weather- and altitude-related fluctuations of air pressure. This is often a decisive factor in vacuum applications, which require a fine pressure control.

Absolute pressure sensors do not require ventilation, therefore incorrect measurement due to a blocked exhaust is impossible.

In the field of pressure sensors the new units stand out as specialists for "specific duties".

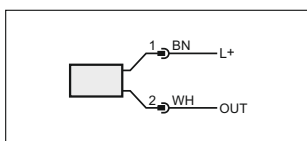


## Dimensions



1) Sealing

## Wiring diagram



## Accessories

Type	Description	Order no.
	Adapter; G 1/4 - G 1/2, high-grade stainless steel (316Ti/1.4571)	<b>E30135</b>

## Connection technology

Type	Description	Order no.
	M12 socket, 2 m black, PUR cable	<b>EVC001</b>
	M12 socket, 5 m black, PUR cable	<b>EVC002</b>
	M12 socket, 2 m black, PUR cable	<b>EVC004</b>
	M12 socket, 5 m black, PUR cable	<b>EVC005</b>

Measuring range [bar]	Poverload max. [bar]	Pburst min. [bar]	Order no.
<b>Output function 4...20 mA</b>			
0...1	2	5	<b>PT0507</b>
0...1.6	3.2	10	<b>PT0517</b>
0...4	8	25	<b>PT0505</b>
0...10	20	50	<b>PT0504</b>

Common technical data		
Operating voltage	[V DC]	8...30
Reverse polarity protection		•
Accuracy / deviation (in % of the span)		
Linearity error		< ± 1.0
Linearity		< ± 0.5 BFSL / < ± 1.0 LS
Repeatability		< ± 0.1
Temperature error in the temperature range 0...80 °C		< ± 2.5 %
Medium temperature	[°C]	0...80
Protection		IP 67
Materials (wetted parts)		NBR, high-grade stainless steel (316L/1.4404)
Step response time	[ms]	4