Pressalis

Datasheet

Pressure transmitters

PT61

Threaded flush diaphragm transmitter



316L transmitter with a flush diaphragm on an M20 x 1.5 or G1/2 thread, for viscous and solid-laden media.

Range	Accuracy	Output	Process connection
0 to 0.4 up to 0 to 70 bar	**±0.5 % of span**	**4 to 20 mA, two-wire**	**M20 x 1.5 or G1/2, flush**

Overview

PT61 puts a flush 316L stainless steel diaphragm at the tip of an M20 x 1.5 or G1/2 male thread. With no pressure channel in front of the diaphragm, thick, sticky or solid-laden media cannot pack into the port. Ranges run from 0 to 0.4 bar up to 0 to 70 bar, gauge or absolute.

It goes on sludge and slurry pumps in wastewater plants, paint and adhesive dosing, polyurethane machines, paper stock lines and food processing equipment with a threaded process port. Every wetted part is 316L stainless steel and the sensing element is fully welded, so it takes any medium that 316L tolerates.

Output is 4 to 20 mA on two wires from 15 to 30 V DC, with ±0.5 % of span accuracy and temperature compensation from -10 to 85 °C. Electrical connection is a DIN 43650 form A connector or cable outlet, and a local display is optional. Allowed overload is 1.5 x range and burst pressure 2 x range.

Specifications

Measurement

Pressure type	Gauge, absolute
Ranges	0 to 0.4 bar up to 0 to 70 bar
Accuracy	±0.5 % of span
Overpressure	1.5 x range
Burst pressure	2 x range
Long-term stability	±0.2 % of span per year
Zero drift	±0.02 % of span per °C

Span drift	±0.02 % of span per °C
Compensated range	-10 to 85 °C

Medium and environment

Operating temperature	-20 to 85 °C; -20 to 70 °C with display
Storage temperature	-40 to 85 °C; -20 to 70 °C with display
Medium above 70 °C	Cooling element recommended
Shock	100 g, 11 ms
Wetted parts	Stainless steel 316L, flush diaphragm
Housing	Stainless steel 316L

Electrical

Output	4 to 20 mA, two-wire
Supply	15 to 30 V DC
Electrical connection	DIN 43650 form A connector or cable outlet
Protection	IP65

Display and switching

Display	Local display, optional

Mechanical

Process connection	M20 x 1.5 or G1/2 male, flush diaphragm
Sensing element	Fully welded

Common configurations

Any combination from the ordering code can be quoted. Other ranges and connections on request.

Range	Pressure type	Process connection	Electrical connection	Display	Order code
0 to 1 bar	Gauge	G1/2 male	DIN 43650 form A	None	**PT61-001-G-B4-D-N**
0 to 6 bar	Gauge	M20 x 1.5 male	DIN 43650 form A	Local display	**PT61-006-G-M20-D-LD**
0 to 10 bar	Absolute	G1/2 male	Cable outlet	None	**PT61-010-A-B4-C-N**
0 to 25 bar	Gauge	M20 x 1.5 male	DIN 43650 form A	None	**PT61-025-G-M20-D-N**
0 to 40 bar	Gauge	G1/2 male	DIN 43650 form A	Local display	**PT61-040-G-B4-D-LD**
0 to 70 bar	Gauge	M20 x 1.5 male	Cable outlet	None	**PT61-070-G-M20-C-N**

Ordering code

One code from each group, in this order. Example: **PT61-K40-G-M20-D-N**. Send the code and the quantity to **contact@pressalis.com** for a quote.

PT61	-	K40	-	G	-	M20	-	D	-	N
Model		Range		Pressure type		Process connection		Electrical connection		Display

Range

K40	0 to 40 kPa (0.4 bar)
001	0 to 1 bar
002	0 to 2 bar
004	0 to 4 bar
006	0 to 6 bar
010	0 to 10 bar
016	0 to 16 bar
025	0 to 25 bar
040	0 to 40 bar
060	0 to 60 bar
070	0 to 70 bar
X	Other range, state in the request

Pressure type

G	Gauge
A	Absolute

Process connection

M20	M20 x 1.5 male, flush diaphragm
B4	G1/2 male, flush diaphragm

Electrical connection

D	DIN 43650 form A connector
C	Cable outlet

Display

N	No display
LD	Local display