Pressalis

Datasheet

Pressure transmitters

PT60

Clamp-mount flush diaphragm transmitter



Flush 316L diaphragm on a clamp flange for viscous, particle-laden, food and pharma media, up to 0 to 25 bar.

Range	Accuracy	Output	Process connection
0 to 0.4 up to 0 to 25 bar	**±0.5 % of span**	**4 to 20 mA, two-wire**	**Clamp flange, flush diaphragm**

Overview

PT60 has its diaphragm flush with the face of a clamp flange, so there is no port or cavity where the medium can settle, set or block. The wetted parts and the housing are 316L stainless steel, and the sensing element is fully welded. Ranges run from 0 to 0.4 bar up to 0 to 25 bar, gauge or absolute.

It is made for food and beverage lines, pharmaceutical and biotech process equipment, and for viscous or particle-laden media such as paint, paper stock and polyurethane components. In water and pumping it fits sludge and slurry lines where a threaded port with a pressure channel would clog.

Output is 4 to 20 mA on two wires from 15 to 30 V DC, with ±0.5 % of span accuracy and a frequency response of 3.2 kHz. Connection is by DIN 43650 form A connector or cable outlet, and a local display is available. Without the display the transmitter runs at -20 to 85 °C, with it at -20 to 70 °C.

Specifications

Measurement

Pressure type	Gauge, absolute
Ranges	0 to 0.4 bar up to 0 to 25 bar
Accuracy	±0.5 % of span
Overpressure	1.5 x range
Burst pressure	3 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
Frequency response	3.2 kHz (-3 dB)

Medium and environment

Operating temperature	-20 to 85 °C; -20 to 70 °C with display
Medium above 70 °C	Cooling element recommended
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
Maximum load	(Supply voltage minus 9 V) / 20 mA
Electrical connection	DIN 43650 form A connector or cable outlet
Protection	IP65

Display and switching

Display	Local display, optional

Mechanical

Process connection	Clamp flange with flush diaphragm
Accessories	Clamp and gasket, optional
Sensing element	Fully welded

Common configurations

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

Range	Pressure type	Electrical connection	Display	Order code
0 to 0.4 bar	Gauge	DIN 43650 form A	None	**PT60-K40-G-D-N**
0 to 1 bar	Gauge	DIN 43650 form A	Local display	**PT60-001-G-D-LD**
0 to 4 bar	Gauge	Cable outlet	None	**PT60-004-G-C-N**
0 to 6 bar	Absolute	DIN 43650 form A	None	**PT60-006-A-D-N**
0 to 10 bar	Gauge	DIN 43650 form A	Local display	**PT60-010-G-D-LD**
0 to 25 bar	Gauge	Cable outlet	None	**PT60-025-G-C-N**

Ordering code

One code from each group, in this order. Example: **PT60-K40-G-D-N**. Send the code and the quantity to **contact@pressalis.com** for a quote.

PT60	-	K40	-	G	-	D	-	N
Model		Range		Pressure type		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
X	Other range, state in the request

Pressure type

G	Gauge
A	Absolute

Electrical connection

D	DIN 43650 form A connector
C	Cable outlet

Display

N	No display
LD	Local display