Pressalis

Datasheet

Pressure transmitters

PT71

Compact pressure transmitter with LED display



Slim two-wire 4 to 20 mA transmitter with a four-digit LED display under its DIN connector, up to 600 bar.

Range	Accuracy	Output	Display
-1 to 0 bar up to 0 to 600 bar	**±0.5 % or ±1 % of span**	**4 to 20 mA, two-wire**	**Four-digit LED**

Overview

PT71 is a compact two-wire 4 to 20 mA transmitter with a four-digit red LED display set between the body and its DIN 43650 form A connector. The display face carries unit indicators for MPa, bar and kPa and three keys. It keeps the slim profile of a plain transmitter: 156 mm long overall with an M20 x 1.5 connection.

It suits hydraulic power units, machine tools, pump skids and water treatment equipment, where space is tight and a reading at the point helps during commissioning and maintenance. Ranges run from -1 to 0 bar and from 0 to 0.2 bar up to 0 to 600 bar, for water, gas or oil.

Accuracy is ±0.5 % or ±1 % of span and supply is 15 to 30 V DC. Wetted parts are 304 stainless steel. Overpressure is 2 x range and burst pressure 3 x range. Reverse polarity and surge protection are built in, and the enclosure is IP65.

Specifications

Measurement

Pressure type	Gauge
Ranges	-1 to 0 bar; 0 to 0.2 bar up to 0 to 600 bar
Accuracy	±0.5 % or ±1 % of span
Long-term stability	±0.2 % of span per year
Zero thermal drift	±0.02 % of span per °C
Span thermal drift	±0.02 % of span per °C
Overpressure	2 x range

Burst pressure	3 x range

Medium and environment

Medium	Water, gas, oil
Compensated temperature	-10 to 70 °C
Operating temperature	-20 to 85 °C
Storage temperature	-40 to 105 °C
Shock	100 g, 11 ms
Wetted parts	304 stainless steel

Electrical

Output	4 to 20 mA, two-wire
Supply	15 to 30 V DC
Circuit protection	Reverse polarity and surge
Electrical connection	DIN 43650 form A connector, PG11 cable entry
Protection	IP65

Display

Display	Four-digit red LED
Unit indicators	MPa, bar, kPa
Keys	Three, on the display face

Mechanical

Process connection	M20 x 1.5, G1/4, 1/4 NPT; other threads on request
Overall length	156 mm with M20 x 1.5 connection
Body diameter	26.2 mm

Common configurations

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

Range	Process connection	Accuracy	Order code
0 to 10 bar	M20 x 1.5 male	±0.5 %	**PT71-010-M20-A05**
0 to 16 bar	G1/4 male	±0.5 %	**PT71-016-B2-A05**
0 to 25 bar	G1/4 male	±1 %	**PT71-025-B2-A1**
0 to 250 bar	M20 x 1.5 male	±0.5 %	**PT71-250-M20-A05**
0 to 6 bar	1/4 NPT male	±1 %	**PT71-006-N2-A1**
-1 to 0 bar	G1/4 male	±0.5 %	**PT71-V00-B2-A05**

Ordering code

One code from each group, in this order. Example: **PT71-V00-M20-A05**. Send the code and the quantity to **contact@pressalis.com** for a quote.

PT71	-	V00	-	M20	-	A05
Model		Range		Process connection		Accuracy

Range

V00	-1 to 0 bar
K20	0 to 20 kPa
001	0 to 1 bar
006	0 to 6 bar
010	0 to 10 bar
016	0 to 16 bar
025	0 to 25 bar
100	0 to 100 bar
250	0 to 250 bar
600	0 to 600 bar
X	Other range, state in the request

Process connection

M20	M20 x 1.5 male
B2	G1/4 male
N2	1/4 NPT male

Accuracy

A05	±0.5 % of span
A1	±1 % of span