Pressalis

Datasheet

Pressure transmitters

PT70

Field housing transmitter with local display



Two-wire 4 to 20 mA loop with a 3.5-digit or pointer display at the point, gauge, sealed gauge or absolute.

Range	Accuracy	Output	Display
-1 to 0 bar up to 0 to 600 bar	**±0.3 % or ±0.5 % of span**	**4 to 20 mA, two-wire**	**3.5-digit or pointer**

Overview

PT70 is a two-wire 4 to 20 mA transmitter in a field housing with a local display, so the operator reads the pressure at the point while the loop carries it to the control system. The display is a 3.5-digit digital readout or an analog pointer, chosen in the order code.

It goes on pump stations, water treatment lines, process pipework and hydraulic units, where a reading at the pipe saves fitting a separate gauge. Ranges run from -1 to 0 bar and from 0 to 0.2 bar up to 0 to 600 bar, gauge, sealed gauge or absolute, with ±0.3 % or ±0.5 % of span accuracy.

Supply is 15 to 30 V DC, 24 V DC recommended. Wetted parts are 304 or 316 stainless steel below 6 bar and 17-4PH stainless steel from 6 bar. Thermal drift is ±0.02 % of span per °C at zero and at span, and frequency response is 3.2 kHz. Protection is IP65.

Specifications

Measurement

Pressure type	Gauge, sealed gauge, absolute
Ranges	-1 to 0 bar; 0 to 0.2 bar up to 0 to 600 bar
Accuracy	±0.3 % or ±0.5 % of span
Long-term stability	±0.1 % of span per year
Zero thermal drift	±0.02 % of span per °C
Span thermal drift	±0.02 % of span per °C
Frequency response (-3 dB)	3.2 kHz

Overpressure	1.5 x range below 6 bar, 3 x range from 6 bar
Burst pressure	3 x range below 6 bar, 5 x range from 6 bar

Medium and environment

Compensated temperature	-20 to 85 °C
Operating temperature	-40 to 85 °C; display head -20 to 85 °C
Storage temperature	-40 to 125 °C
Vibration	±20 g
Shock	100 g, 11 ms
Wetted parts	304 or 316 stainless steel below 6 bar, 17-4PH stainless steel from 6 bar

Electrical

Output	4 to 20 mA, two-wire
Supply	15 to 30 V DC, 24 V DC recommended
Electrical connection	Cable gland on the housing
Protection	IP65

Display

Display	3.5-digit digital display or analog pointer

Mechanical

Process connection	M20 x 1.5, G1/4, 1/4 NPT; other threads on request

Common configurations

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

Range	Pressure type	Process connection	Display	Accuracy	Order code
0 to 10 bar	Gauge	M20 x 1.5 male	Digital	±0.5 %	**PT70-010-G-M20-DG-A05**
0 to 16 bar	Gauge	G1/4 male	Digital	±0.3 %	**PT70-016-G-B2-DG-A03**
-1 to 0 bar	Gauge	M20 x 1.5 male	Digital	±0.5 %	**PT70-V00-G-M20-DG-A05**
0 to 1 bar	Absolute	G1/4 male	Digital	±0.3 %	**PT70-001-A-B2-DG-A03**
0 to 25 bar	Sealed gauge	1/4 NPT male	Pointer	±0.5 %	**PT70-025-S-N2-AN-A05**
0 to 250 bar	Sealed gauge	M20 x 1.5 male	Digital	±0.5 %	**PT70-250-S-M20-DG-A05**

Ordering code

One code from each group, in this order. Example: **PT70-V00-G-M20-DG-A03**. Send the code and the quantity to **contact@pressalis.com** for a quote.

PT70	-	V00	-	G	-	M20	-	DG	-	A03
Model		Range		Pressure type		Process connection		Display		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

Pressure type

G	Gauge
S	Sealed gauge
A	Absolute

Process connection

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

Display

DG	3.5-digit digital display
AN	Analog pointer display

Accuracy

A03	±0.3 % of span
A05	±0.5 % of span