Pressalis

Datasheet

Pressure transmitters

PT11

Wide-range welded stainless transmitter



Laser-welded 304 stainless, vacuum up to 600 bar, gauge or absolute, with a damping insert in the port.

Range	Accuracy	Output	Protection
0 to 0.2 up to 0 to 600 bar	**±0.5 % of span**	**4 to 20 mA or voltage**	**IP65**

Overview

PT11 is a general-purpose transmitter with a laser-welded 304 stainless steel pressure chamber. One model covers vacuum from -1 to 0 bar and ranges from 0 to 0.2 bar up to 0 to 600 bar, gauge or absolute, at ±0.5 % of span with ±0.1 % of span per year stability. It reads water, air, oil and hydraulic fluid.

It is built for pump stations, water treatment, compressed air headers and hydraulic units, where one model across all ranges keeps spares simple. A damping insert in the pressure port shields the sensing element from sudden spikes. Overpressure is 1.5 x range and burst pressure 2 x range, so the range should sit above the highest spike the line sees.

Outputs are 4 to 20 mA two-wire, or 0 to 5 V, 0 to 10 V or 0.5 to 4.5 V three-wire, with surge and reverse polarity protection. The 26.2 mm body takes DIN 43650 form A or form C, M12, Packard, AMP, Deutsch DT04 or circular connectors, or a cable outlet. Fifteen process threads are listed, from G1/8 to M20 x 1.5.

Specifications

Measurement

Pressure type	Gauge, absolute
Ranges	-1 to 0 bar, and 0 to 0.2 bar up to 0 to 600 bar
Accuracy	±0.5 % of span
Long-term stability	±0.1 % of span per year
Overpressure	1.5 x range
Burst pressure	2 x range
Zero temperature drift	±0.02 % of span per °C

Span temperature drift	±0.02 % of span per °C
Compensated temperature	-20 to 85 °C

Medium and environment

Media	Water, air, oil, hydraulic fluid
Medium temperature	-40 to 85 °C
Storage temperature	-40 to 85 °C
Shock	100 g (11 ms)
Material	304 stainless steel, laser welded

Electrical

Output	4 to 20 mA two-wire; 0 to 5 V, 0 to 10 V or 0.5 to 4.5 V three-wire
Supply	9 to 30 V DC (4 to 20 mA, 0 to 5 V); 15 to 30 V DC (0 to 10 V); 5 V DC or 9 to 30 V DC (0.5 to 4.5 V)
Protection circuits	Surge and reverse polarity protection
Electrical connection	DIN 43650 form A or form C, M12, Packard, circular connector, AMP, Deutsch DT04-3P or DT04-4P, cable outlet or watertight cable outlet
Protection	IP65

Mechanical

Process connection	G1/8, G1/4, G3/8, G1/2, 1/8 NPT, 1/4 NPT, 3/8 NPT, 1/2 NPT, R1/8, R1/4, R3/8, R1/2, M12 x 1.5, M18 x 1.5, M20 x 1.5
Pressure port	Damping insert against pressure spikes
Body diameter	26.2 mm
Wrench size	27 mm (M20 x 1.5 version)

Common configurations

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

Range	Pressure type	Process connection	Output	Electrical connection	Order code
-1 to 0 bar	Gauge	G1/4 male	4 to 20 mA	DIN 43650 form A	**PT11-V00-G-B2-I-D**
0 to 20 kPa	Gauge	G1/2 male	0 to 10 V	DIN 43650 form A	**PT11-K20-G-B4-V10-D**
0 to 4 bar	Absolute	G1/4 male	0 to 10 V	M12	**PT11-004-A-B2-V10-M**
0 to 10 bar	Gauge	G1/2 male	4 to 20 mA	DIN 43650 form A	**PT11-010-G-B4-I-D**
0 to 16 bar	Gauge	G1/4 male	4 to 20 mA	M12	**PT11-016-G-B2-I-M**
0 to 25 bar	Gauge	1/4 NPT male	0.5 to 4.5 V	Packard	**PT11-025-G-N2-H-P**
0 to 250 bar	Gauge	M20 x 1.5 male	4 to 20 mA	Packard	**PT11-250-G-M20-I-P**

Ordering code

One code from each group, in this order. Example: **PT11-V00-G-B1-I-D**. Send the code and the quantity to **contact@pressalis.com** for a quote.

PT11	-	V00	-	G	-	B1	-	I	-	D
Model		Range		Pressure type		Process connection		Output		Electrical connection

Range

V00	-1 to 0 bar
K20	0 to 20 kPa
001	0 to 1 bar
004	0 to 4 bar
010	0 to 10 bar
016	0 to 16 bar
025	0 to 25 bar
060	0 to 60 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
A	Absolute

Process connection

B1	G1/8 male
B2	G1/4 male
B3	G3/8 male
B4	G1/2 male
N1	1/8 NPT male
N2	1/4 NPT male
N4	1/2 NPT male
R2	R1/4 male
R4	R1/2 male
M12	M12 x 1.5 male
M18	M18 x 1.5 male
M20	M20 x 1.5 male

Output

I	4 to 20 mA, two-wire
V5	0 to 5 V, three-wire
V10	0 to 10 V, three-wire
H	0.5 to 4.5 V, three-wire, 5 V DC supply

Electrical connection

D	DIN 43650 form A connector
DC	DIN 43650 form C connector
P	Packard connector
M	M12 connector, four-pin
A	Circular connector
C	Cable outlet
CW	Watertight cable outlet
AM	AMP connector, two-pin
T3	Deutsch DT04-3P connector
T4	Deutsch DT04-4P connector