Pressalis

Datasheet

Pressure transmitters

PT13

Glass-fused transmitter, 0.5 % grade



Same one-piece 17-4PH cell as PT12 at ±0.5 % or ±1 % of span, in gauge, sealed gauge or absolute reference.

Range	Accuracy	Pressure type	Overpressure
0 to 6 up to 0 to 600 bar	**±0.5 % or ±1 % of span**	**Gauge, sealed gauge, absolute**	**3 x range, burst 5 x range**

Overview

PT13 shares the glass-fused 17-4PH construction of PT12: a one-piece pressure chamber with no weld and no O-ring in contact with the medium, 3 x range overpressure and 5 x range burst pressure. It is the general-duty grade, at ±0.5 % or ±1 % of span with ±0.2 % of span per year stability, compensated from -10 to 70 °C.

Ranges run from 0 to 6 bar up to 0 to 600 bar, with gauge, sealed gauge or absolute reference. Sealed gauge has no vent, which suits pump pits, washdown areas and outdoor booster sets where a vent could take in water. Absolute suits gas lines and test benches that must not follow changes in barometric pressure.

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. Besides male threads from G1/4 to M20 x 1.5, it is available with female G1/4 and female 7/16-20 UNF ports. Connector choices match PT12, from DIN 43650 to Deutsch DT04.

Specifications

Measurement

Pressure type	Gauge, sealed gauge, absolute
Ranges	0 to 6 bar up to 0 to 600 bar
Accuracy	±0.5 % or ±1 % of span
Long-term stability	±0.2 % of span per year
Overpressure	3 x range
Burst pressure	5 x range
Zero temperature drift	±0.02 % of span per °C

Span temperature drift	±0.02 % of span per °C
Compensated temperature	-10 to 70 °C

Medium and environment

Medium temperature	-40 to 85 °C
Storage temperature	-40 to 125 °C
Shock	100 g (11 ms)
Wetted parts	17-4PH stainless steel
Housing	304 stainless steel

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 (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	Male G1/4, G3/8, G1/2, 1/4 NPT, 1/2 NPT, R1/4, R1/2, M14 x 1.5, M18 x 1.5, M20 x 1.5, 7/16-20 UNF; female G1/4, 1/4 NPT, 7/16-20 UNF
Construction	One-piece 17-4PH pressure chamber, glass-fused sensing element, no weld, no O-ring
Body diameter	22 mm
Wrench size	22 mm

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	Accuracy	Order code
0 to 6 bar	Absolute	G1/4 male	0 to 10 V	M12	±0.5 %	**PT13-006-A-B2-V10-M-A05**
0 to 10 bar	Gauge	G1/4 male	4 to 20 mA	DIN 43650 form A	±0.5 %	**PT13-010-G-B2-I-D-A05**
0 to 16 bar	Sealed gauge	G1/2 male	4 to 20 mA	Watertight cable outlet	±0.5 %	**PT13-016-S-B4-I-CW-A05**
0 to 60 bar	Gauge	G1/4 female	0 to 5 V	Deutsch DT04-4P	±1 %	**PT13-060-G-FB2-V5-T4-A1**
0 to 250 bar	Sealed gauge	7/16-20 UNF female	0.5 to 4.5 V	Packard	±1 %	**PT13-250-S-FU7-H-P-A1**
0 to 400 bar	Sealed gauge	M20 x 1.5 male	4 to 20 mA	DIN 43650 form A	±0.5 %	**PT13-400-S-M20-I-D-A05**

Ordering code

One code from each group, in this order. Example: **PT13-006-G-B2-I-D-A05**. Send the code and the quantity to **contact@pressalis.com** for a quote.

PT13	-	006	-	G	-	B2	-	I	-	D	-	A05
Model		Range		Pressure type		Process connection		Output		Electrical connection		Accuracy

Range

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
100	0 to 100 bar
160	0 to 160 bar
250	0 to 250 bar
400	0 to 400 bar
600	0 to 600 bar
X	Other range, state in the request

Pressure type

G	Gauge
S	Sealed gauge
A	Absolute

Process connection

B2	G1/4 male
B4	G1/2 male
N2	1/4 NPT male
N4	1/2 NPT male
R2	R1/4 male
R4	R1/2 male
M14	M14 x 1.5 male
M18	M18 x 1.5 male
M20	M20 x 1.5 male
U7	7/16-20 UNF male
FB2	G1/4 female
FU7	7/16-20 UNF female

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

Accuracy

A05	±0.5 % of span
A1	±1 % of span