Pressalis

Datasheet

Pressure transmitters

PT62

Finned high-temperature pressure transmitter



Cooling section for media at -70 to 150 °C, 0 to 16 up to 0 to 1000 bar, with current or voltage output.

Range	Medium temperature	Output	Accuracy
0 to 16 up to 0 to 1000 bar	**-70 to 150 °C**	**4 to 20 mA or voltage**	**±0.3 or ±0.5 % of span**

Overview

PT62 has a finned cooling section between the process connection and the electronics. It is rated for media from -70 to 150 °C, with an operating temperature of -40 to 125 °C for the transmitter itself. Ranges run from 0 to 16 bar up to 0 to 1000 bar, gauge, sealed gauge or absolute.

It goes on hot oil and thermal oil circuits, steam and boiler lines, sterilisers and autoclaves, and hydraulic systems that run hot, as well as cold lines down to -70 °C. In buildings it suits heating plant and district heating substations; on test benches, hot oil and engine rigs.

The sensing element is glass-fused to a 17-4PH stainless steel body. Output is 4 to 20 mA, 0.5 to 4.5 V, 0 to 5 V or 0 to 10 V, with ±0.3 % or ±0.5 % of span accuracy and ±0.1 % of span per year stability. Connection is by cable outlet, M12 or DIN 43650 connector on an M20 x 1.5, G1/4 or 1/4 NPT port.

Specifications

Measurement

Pressure type	Gauge, sealed gauge, absolute
Ranges	0 to 16 bar up to 0 to 1000 bar
Accuracy	±0.3 % or ±0.5 % of span
Overpressure	2 x range
Burst pressure	5 x range
Long-term stability	±0.1 % of span per year
Zero drift	±0.02 % of span per °C
Span drift	±0.02 % of span per °C

Compensated range	-40 to 85 °C
Frequency response	3.2 kHz (-3 dB)

Medium and environment

Medium temperature	-70 to 150 °C
Operating temperature	-40 to 125 °C
Storage temperature	-40 to 125 °C
Shock	100 g, 11 ms
Vibration	±20 g
Wetted parts	17-4PH stainless steel
Cooling	Finned section between port and electronics

Electrical

Output	4 to 20 mA two-wire; 0.5 to 4.5 V, 0 to 5 V or 0 to 10 V three-wire
Supply	9 to 30 V DC (4 to 20 mA, 0 to 5 V); 5 V DC (0.5 to 4.5 V); 15 to 30 V DC (0 to 10 V)
Electrical connection	Cable outlet, M12 connector, DIN 43650 form A or form C connector
Protection	IP65

Mechanical

Process connection	M20 x 1.5, G1/4 or 1/4 NPT male
Sensing element	Glass-fused to a 17-4PH stainless steel body

Common configurations

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

Range	Pressure type	Accuracy	Process connection	Output	Electrical connection	Order code
0 to 16 bar	Gauge	±0.5 % of span	G1/4 male	4 to 20 mA	Cable outlet	**PT62-016-G-A05-B2-I-C**
0 to 25 bar	Absolute	±0.3 % of span	G1/4 male	4 to 20 mA	M12 connector	**PT62-025-A-A03-B2-I-M**
0 to 40 bar	Sealed gauge	±0.5 % of span	M20 x 1.5 male	4 to 20 mA	DIN 43650 form A	**PT62-040-S-A05-M20-I-D**
0 to 100 bar	Gauge	±0.3 % of span	1/4 NPT male	0 to 10 V	M12 connector	**PT62-100-G-A03-N2-V10-M**
0 to 250 bar	Sealed gauge	±0.5 % of span	M20 x 1.5 male	4 to 20 mA	Cable outlet	**PT62-250-S-A05-M20-I-C**
0 to 600 bar	Gauge	±0.5 % of span	G1/4 male	0.5 to 4.5 V	DIN 43650 form C	**PT62-600-G-A05-B2-H-DC**

Ordering code

One code from each group, in this order. Example: **PT62-016-G-A03-M20-I-C**. Send the code and the quantity to **contact@pressalis.com** for a quote.

PT62	-	016	-	G	-	A03	-	M20	-	I	-	C
Model		Range		Pressure type		Accuracy		Process connection		Output		Electrical connection

Range

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
1000	0 to 1000 bar
X	Other range, state in the request

Pressure type

G	Gauge
S	Sealed gauge
A	Absolute

Accuracy

A03	±0.3 % of span
A05	±0.5 % of span

Process connection

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

Output

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

Electrical connection

C	Cable outlet
M	M12 connector
D	DIN 43650 form A connector
DC	DIN 43650 form C connector