Pressalis

Datasheet

Pressure transmitters

PT24

Ceramic oil pressure transmitter to 50 bar



4 to 20 mA transmitter with a ceramic sensing element in a laser-welded 304 body, for oil, water and gas.

Range	Accuracy	Output	Sensing element
0 to 5 up to 0 to 50 bar	**±1 % of span**	**4 to 20 mA, two-wire**	**Ceramic**

Overview

PT24 measures oil, hydraulic fluid, water and gas from 0 to 5 bar up to 0 to 50 bar, gauge. The sensing element is ceramic, inside a 304 stainless steel body that is laser-welded throughout. Output is 4 to 20 mA on two wires from 9 to 30 V DC, through a DIN 43650 form A connector.

It goes on oil and low-pressure hydraulic circuits on machines, compressors, pump stations, water treatment and building water systems. The body is 27 mm across with a 27 mm hex and 52 mm long below the connector, which keeps it compact on crowded pipework and machine frames.

Accuracy is ±1 % of span, with temperature compensation from -10 to 70 °C and long-term stability of ±0.2 % of span per year. Allowed overload is 2 x range and burst pressure 3 x range. The circuit is protected against surges and reverse polarity. Process connection is M20 x 1.5 or G1/4, with 1/4 NPT and G1/2 as options.

Specifications

Measurement

Pressure type	Gauge
Ranges	0 to 5, 7, 10, 15, 20, 25, 32 or 50 bar
Accuracy	±1 % of span
Overpressure	2 x range
Burst pressure	3 x range
Long-term stability	±0.2 % of span per year
Zero drift	±0.02 % of span per °C

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

Medium and environment

Media	Water, oil, hydraulic fluid, gas
Medium temperature	-40 to 85 °C
Storage temperature	-40 to 125 °C
Shock	100 g, 11 ms
Sensing element	Ceramic
Body	Stainless steel 304, laser-welded

Electrical

Output	4 to 20 mA, two-wire
Supply	9 to 30 V DC
Circuit protection	Reverse polarity and surge
Electrical connection	DIN 43650 form A connector

Mechanical

Process connection	M20 x 1.5 or G1/4 male; 1/4 NPT or G1/2 male as options
Body	27 mm diameter, 27 mm hex
Length	52 mm from thread end to connector

Common configurations

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

Range	Process connection	Output	Electrical connection	Order code
0 to 5 bar	G1/4 male	4 to 20 mA	DIN 43650 form A	**PT24-005-B2**
0 to 10 bar	G1/4 male	4 to 20 mA	DIN 43650 form A	**PT24-010-B2**
0 to 20 bar	M20 x 1.5 male	4 to 20 mA	DIN 43650 form A	**PT24-020-M20**
0 to 25 bar	1/4 NPT male	4 to 20 mA	DIN 43650 form A	**PT24-025-N2**
0 to 32 bar	M20 x 1.5 male	4 to 20 mA	DIN 43650 form A	**PT24-032-M20**
0 to 50 bar	G1/2 male	4 to 20 mA	DIN 43650 form A	**PT24-050-B4**

Ordering code

One code from each group, in this order. Example: **PT24-005-M20**. Send the code and the quantity to **contact@pressalis.com** for a quote.

PT24	-	**005**	-	**M20**
Model		Range		Process connection

Range

005	0 to 5 bar
007	0 to 7 bar
010	0 to 10 bar
015	0 to 15 bar
020	0 to 20 bar
025	0 to 25 bar
032	0 to 32 bar
050	0 to 50 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
B4	G1/2 male