Pressalis

Datasheet

Pressure transmitters

PT22

Short-body hydraulic pressure transmitter



IP67 stainless transmitter up to 1000 bar for mobile hydraulics, with M12, Packard, AMP or Deutsch connector.

Range	Accuracy	Output	Protection
Up to 0 to 1000 bar	**±0.5 or ±1 % of span**	**4 to 20 mA or 0.5 to 4.5 V**	**IP67**

Overview

PT22 is a short, all stainless steel transmitter for hydraulic circuits up to 0 to 1000 bar. With the M12 connector it is 50 mm long on a 19 mm body, so it fits on valve blocks, manifolds and cylinder ports where space is tight. Protection is IP67.

It covers excavator and crane hydraulics, cylinder pressure, presses, compressors, pneumatic controls and pump stations. Output is 4 to 20 mA on 15 to 30 V DC, or 0.5 to 4.5 V ratiometric on 5 V DC for controllers that supply a 5 V sensor rail. Connectors are M12, Packard, AMP 3-pin or Deutsch DT04-4P.

The sensing element is glass-fused to a one-piece 304 stainless steel body, with no O-ring and no weld seam in the pressure path. Allowed overload is 3 x range and burst pressure 5 x range, which leaves margin for the peaks a valve or cylinder end stop puts on the line. Process connection is M20 x 1.5 or G1/4.

Specifications

Measurement

Pressure type	Gauge
Ranges	Up to 0 to 1000 bar
Accuracy	±0.5 % or ±1 % of span
Overpressure	3 x range
Burst pressure	5 x range
Long-term stability	±0.2 % of span per year
Zero drift	Within ±0.02 % of span per °C

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

Medium and environment

Media	Hydraulic oil, oil, water, air
Operating temperature	-40 to 85 °C
Storage temperature	-40 to 125 °C
Shock	100 g, 11 ms
Material	Stainless steel 304

Electrical

Output	4 to 20 mA two-wire, or 0.5 to 4.5 V ratiometric three-wire
Supply	15 to 30 V DC (4 to 20 mA); 5 V DC (0.5 to 4.5 V)
Electrical connection	M12 connector, Packard, AMP 3-pin, Deutsch DT04-4P
Protection	IP67

Mechanical

Process connection	M20 x 1.5 or G1/4 male
Length	50 mm with M12 connector, 58 mm with Packard
Body	19 mm diameter, 22 mm hex
Sensing element	Glass-fused to a one-piece stainless steel body, no O-ring or weld

Common configurations

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

Range	Accuracy	Process connection	Output	Electrical connection	Order code
0 to 100 bar	±0.5 % of span	G1/4 male	0.5 to 4.5 V ratiometric	M12 connector	**PT22-100-A05-B2-R-M**
0 to 160 bar	±1 % of span	G1/4 male	4 to 20 mA	AMP 3-pin	**PT22-160-A1-B2-I-AM**
0 to 250 bar	±0.5 % of span	G1/4 male	4 to 20 mA	M12 connector	**PT22-250-A05-B2-I-M**
0 to 400 bar	±0.5 % of span	G1/4 male	0.5 to 4.5 V ratiometric	Deutsch DT04-4P	**PT22-400-A05-B2-R-T4**
0 to 600 bar	±1 % of span	M20 x 1.5 male	0.5 to 4.5 V ratiometric	Packard	**PT22-600-A1-M20-R-P**
0 to 1000 bar	±0.5 % of span	M20 x 1.5 male	4 to 20 mA	M12 connector	**PT22-1000-A05-M20-I-M**

Ordering code

One code from each group, in this order. Example: **PT22-040-A05-M20-I-M**. Send the code and the quantity to **contact@pressalis.com** for a quote.

PT22	-	040	-	A05	-	M20	-	I	-	M
Model		Range		Accuracy		Process connection		Output		Electrical connection

Range

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

Accuracy

A05	±0.5 % of span
A1	±1 % of span

Process connection

M20	M20 x 1.5 male
B2	G1/4 male

Output

I	4 to 20 mA, two-wire
R	0.5 to 4.5 V ratiometric, three-wire

Electrical connection

M	M12 connector
P	Packard connector
AM	AMP connector, 3-pin
T4	Deutsch DT04-4P