Pressalis

Datasheet

Differential pressure transmitters

PDT20

Compact air differential pressure transmitter



Metal body with hose barbs for dry air and gas, 0 to 0.5 kPa up to 0 to 1 bar, 4 to 20 mA or 0 to 5 V.

Range	Accuracy	Output	Protection
0 to 0.5 kPa up to 0 to 1 bar	**±0.5 % or ±1 % of span**	**4 to 20 mA or 0 to 5 V**	**IP65**

Overview

PDT20 is a compact differential pressure transmitter for dry air and gas. The metal body is 60 by 27.5 mm, with two hose barbs on M10 x 1.5 threads marked high and low, and a cable outlet on the opposite end. It sits flat on a base flange with two 4 mm mounting holes, so it fits inside an air handling unit or a control panel.

In HVAC and buildings it reads filter loss, duct and fan pressure, indoor to outdoor differential and the pressurisation of lift lobbies and stairwells. It also reads draught on boilers whose furnace runs below atmospheric pressure. The medium has to be dry gas; mildly corrosive gas is within its limits, liquids are not.

Ranges run from 0 to 0.5 kPa up to 0 to 1 bar. Output is 4 to 20 mA on two wires or 0 to 5 V on three, from a 12 to 30 V DC supply. Accuracy is ±0.5 % or ±1 % of span, overload 1.5 x range, burst 2 x range, and the body is IP65.

Specifications

Measurement

Pressure type	Differential
Ranges	0 to 0.5 kPa up to 0 to 1 bar
Accuracy	±0.5 % or ±1 % of span
Overload	1.5 x range
Burst pressure	2 x range
Compensated temperature	-10 to 70 °C

Medium and environment

Medium	Dry air and gases, mildly corrosive at most
Operating temperature	-10 to 80 °C
Protection	IP65

Electrical

Output	4 to 20 mA two-wire, or 0 to 5 V three-wire
Supply	12 to 30 V DC
Load, current output	Below (supply voltage - 9 V) / 20 mA
Load, voltage output	Above 100 kΩ
Electrical connection	Cable outlet with cable gland

Mechanical

Pressure ports	Two hose barbs on M10 x 1.5 threads, marked H and L
Fitting material	Aluminium alloy
Dimensions	60 x 27.5 mm body, 102.5 mm long over the hose barbs
Mounting	Base flange with two 4 mm holes

Common configurations

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

Range	Output	Accuracy	Pressure ports	Protection	Order code
0 to 0.5 kPa	4 to 20 mA	±1 % of span	Hose barbs	IP65	**PDT20-P500-I-A1**
0 to 0.5 kPa	0 to 5 V	±1 % of span	Hose barbs	IP65	**PDT20-P500-V5-A1**
0 to 1 bar	4 to 20 mA	±0.5 % of span	Hose barbs	IP65	**PDT20-001-I-A05**
0 to 1 bar	0 to 5 V	±0.5 % of span	Hose barbs	IP65	**PDT20-001-V5-A05**
0 to 1 bar	4 to 20 mA	±1 % of span	Hose barbs	IP65	**PDT20-001-I-A1**

Ordering code

One code from each group, in this order. Example: **PDT20-P500-I-A05**. Send the code and the quantity to **contact@pressalis.com** for a quote.

PDT20	-	P500	-	I	-	A05
Model		Range		Output		Accuracy

Range

P500	0 to 0.5 kPa
001	0 to 1 bar
X	Other range, state in the request

Output

I	4 to 20 mA, two-wire
V5	0 to 5 V, three-wire

Accuracy

A05	±0.5 % of span
A1	±1 % of span