

Presigo PDT... (-2)

Differential pressure transmitters
for HVAC applications



Transmitters with one or two analogue outputs.

- ✓ Uses a sensor technology that offers very high accuracy and excellent long-term stability
- ✓ Small and compact design
- ✓ Easy installation
- ✓ Less wiring is required
- ✓ Operating temperature -25...+50°C
- ✓ Two outputs for either 0...10 V or 4...20 mA
- ✓ Can be mounted vertically or horizontally

Function

The Presigo PDT...(-2) range consists of single or dual port pressure transmitters with one or two analogue outputs. The transmitter can be configured for 0...10 V DC or 4...20 mA output signal.

Five different models are available (see table on page 2).

Smart sensor technology

The transmitter has one or two MEMS dual-chip medical grade sensor modules for general use with neutral gases. This technology offers very high accuracy and excellent long-term stability.

Compact design and flexible analogue outputs

PDT...(-2) has a small and compact design which, depending on the model, contains one or two transmitters and one or two analogue outputs in the same casing.

The analogue outputs can be individually configured as 0...10 V or 4...20 mA outputs.

DIP-switch

The transmitter features one or two groups of DIP-switches for setting up suitable pressure range, output function and damping time factor.

If the DIP-switch settings are changed, all changes will take place immediately.

Easy installation and wiring

The unit can be mounted either vertically or horizontally. If it is installed in a humid environment, vertical mounting is recommended to allow moisture to escape.

Two separate cable inlets, a large angled terminal and generous space make wiring easy.

Pressure ranges (full scale)

Model		Pressure range (Pa)	mBar	mmH ₂ O	inH ₂ O
PDT12	PS1	0...1250	0...12.5	0...125	...5
PDT25	PS1	0...2500	0...25	0...250	0...10
PDT75	PS1	0...7500	0...75	0...750	0...30
PDT12S25-2	PS1	0...1250	0...12.5	0...125	...5
	PS2	0...2500	0...25	0...250	0...10
PDT12S75-2	PS1	0...1250	0...12.5	0...125	...5
	PS2	0...7500	0...75	0...750	0...30

Pressure range, options

	Pressure range	1250 Pa-sensor	2500 Pa-sensor	7500 Pa-sensor
Output signal (Pa)	Range 1	0...50	0...100	0...1000
	Range 2	0...100	0...300	0...2000
	Range 3	0...300	0...500	0...3000
	Range 4	0...500	0...1000	0...4000
	Range 5	0...700	0...1500	0...5000
	Range 6	0...1000	0...2000	0...6000
	Range 7	0...1250	0...2500	0...7500

Analogue outputs AO1, AO2

Configured as 0...10 V	Load impedance $\geq 10\text{ k}\Omega$, Output impedance $\leq 35\Omega$
Output signal 4...20 mA	Output is actively sourced into a resistive load impedance to signal ground. The load impedance must be between 40...500 Ω

Technical data

Supply voltage	24 V AC/DC $\pm 15\%$
Protection class	IP54
Calculated power consumption	
0...10 V mode	2 VA (rms). Minimum transformer size 7.5 VA.
4...20 mA mode	2.7 VA (rms). Minimum transformer size 9 VA
Overall accuracy, pressure	$\leq 1\%$ full scale
Annual deviation (typical)	
P1250 models	± 2 Pa
P2500 models	± 4 Pa
P7500 models	± 20 Pa
Damping (settable)	1, 2, 4 and 8 s
Operating temperature range	-25...+50°C
Operating humidity	Max. 95 % RH (non-condensing)
Oversupply on any terminal	Max. ± 18 V (referenced to GND)
Accessories, included	Two pressure outlets (straight) and 2 m plastic tube. Art. no.: ANS-20
Pressure - Media	Air, non-combustible and non-aggressive gases



This product carries the CE-mark. More information is available at www.regincontrols.com.

Material

Material, housing	Polycarbonate (PC)
Material, base	Polycarbonate (PC)
Material, cable gland	Thermoplastic elastomer (TPS-SEBS)
Material, gasket	Ethylene Propylene Diene Monomer (EPDM)

Models

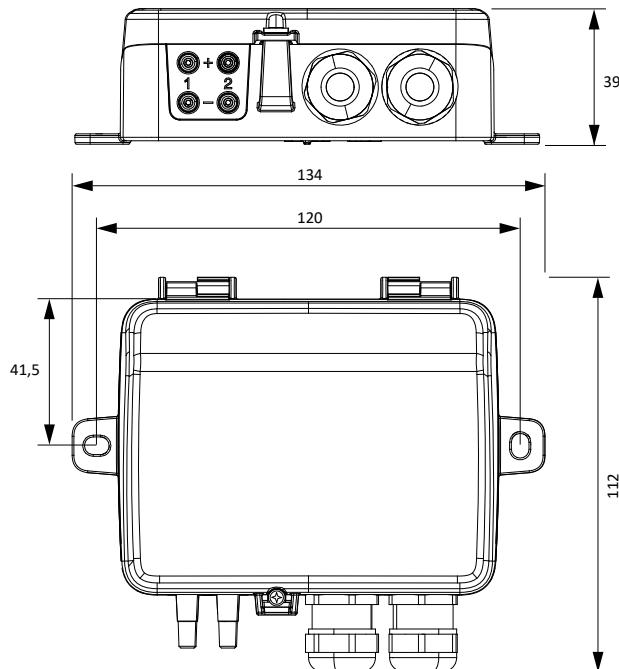
Article		Pressure range (Pa)	Number of sensors
PDT12	PS1 ¹	0...1250	One
PDT25	PS1	0...2500	
PDT75	PS1	0...7500	
PDT12S25-2	PS1	0...1250	Two
	PS2	0...2500	
PDT12S75-2	PS1	0...1250	Two
	PS2	0...7500	

1. PS = Pressure sensor

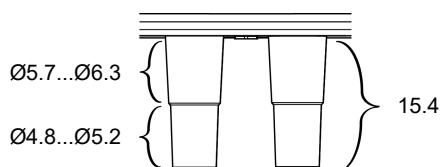
Accessories

Article	Description
ANS-1	2 m plastic tube and two pressure outlets (cut 60°)
ANS-20	Pressure outlet (straight), 2 pcs + 2 m plastic tubing

Dimensions



Dimensions, pressure outlets:



[mm]

Wiring

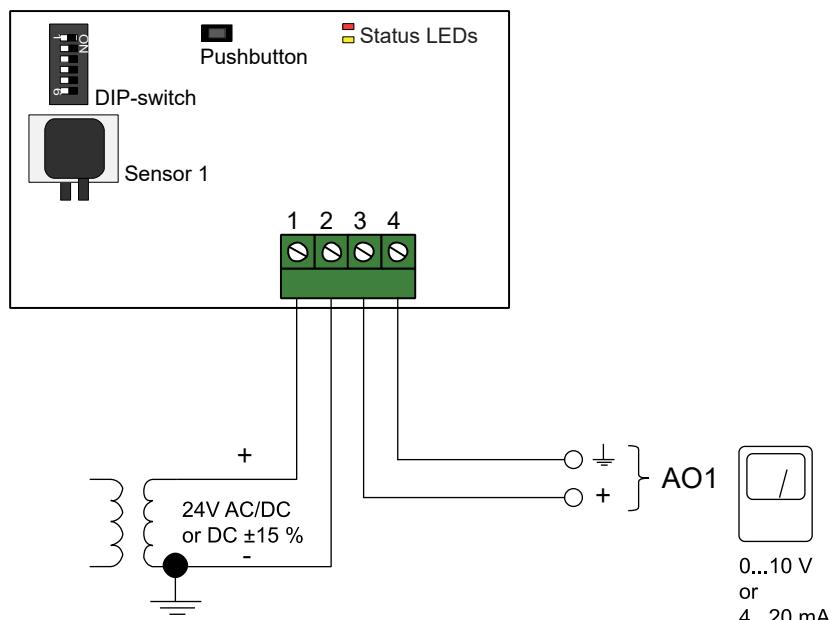


Fig. 1 Wiring for models with one sensor

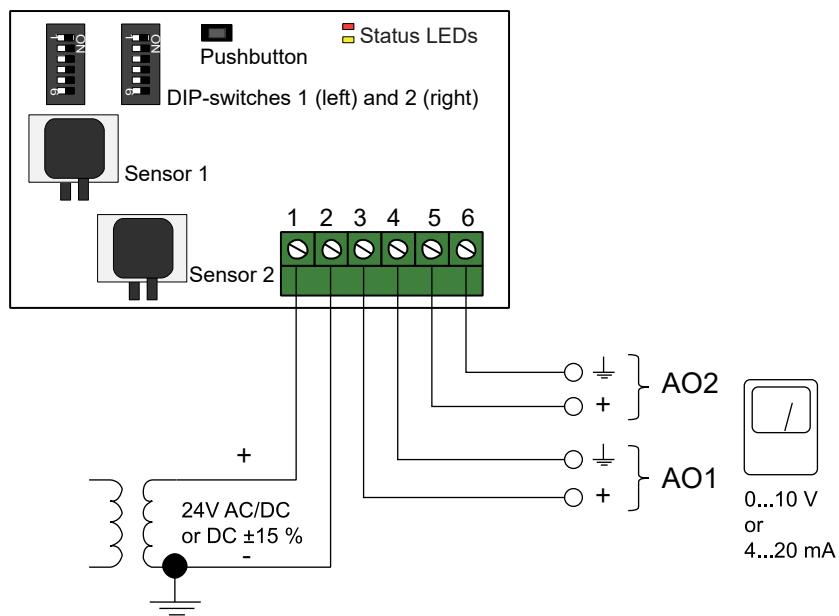


Fig. 2 Wiring for models with two sensors

Documentation

All documentation can be downloaded from www.regincontrols.com.