



Presigo PDT...

Pressure transmitters for HVAC applications

Transmitters with two universal inputs and communication via EXOline or Modbus.

The Presigo PDT... range consists of single or dual port pressure transmitters with two universal inputs and an RS485 port for data exchange. The RS485 port can be easily configured for either EXOline or MODBUS-RTU protocols.

The device is especially well suited as a distributed I/O point for air handling unit controllers. It is designed for simple Ready-Steady-Go installation together with Regin's Corrigo or EXOcompact controllers.

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

Relieves the controller of up to four I/Os

The transmitter operates as a Modbus or EXOline slave, relieving the controller of up to two analogue pressure inputs and two universal inputs. This means that less wiring is required, thereby reducing material costs as well as the amount of work needed.

The unit also contains virtual I/O nodes reporting flow/volume data. One unit will typically cover the sensing needs for one half of a typical air handling unit (fan, filter and two temperatures).

Smart sensor technology

There are 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 universal inputs

PDT... has a small and compact design and contains two transmitters and two universal inputs in one and the same casing. The universal inputs can be individually configured as digital or analogue inputs (PT1000/Ni1000 sensor or 0...10 V).

Short facts about Presigo PDT...

- Uses a sensor technology that offers very high accuracy and excellent long-term stability
- Small and compact design
- Easy installation
- Less wiring is required
- Relieves the controller of up to four I/Os
- Flexible universal inputs
- Can be mounted vertically or horizontally
- Values can be read in E tool®

DIP-switch

The transmitter features a DIP-switch for setting up suitable communication parameters. These settings can later be overridden by commands sent by the master.

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.

Values can be read in E tool®

When connecting PDT... to a Corrigo controller, all values can be read in E tool®, Regin's PC-based software that enables comprehensive configuration and supervision of an installation via a graphical interface.

Models

Model		Pressure range (Pa)	Number of sensors
PDT12C	PS1	0...1250	One (only PS1 is present, reading PS2 related parameters will yield a zero value reading)
PDT25C	PS1	0...2500	
PDT75C	PS1	0...7500	
PDT12C-2	PS1	0...1250	Two
	PS2	0...1250	
PDT12S25C-2	PS1	0...1250	Two
	PS2	0...2500	
PDT25C-2	PS1	0...2500	Two
	PS2	0...2500	
PDT12S75C-2	PS1	0...1250	Two
	PS2	0...7500	

Accessories

Model	Description
ANS-1	2 m plastic tube and two pressure outlets
ANS-12	4 m plastic tube and four pressure outlets

Technical data

Supply voltage	24 V AC/DC $\pm 15\%$
Protection class	IP54
Calculated power consumption	2 VA (rms) / min. trafo size 7.5 VA
Data transmission channel	Non-isolated RS485 (max. 100 m)
Overall accuracy, pressure	$\leq 1\%$ full scale
Annual drift	Typically ± 4 Pa
Damping (settable)	1...12 s
K-factor (settable)	5...700
Operating temperature range	-10...+50°C
Operating humidity	Max. 95 % RH (non-condensing)
Overvoltage on any terminal	Max. ± 18 V (referenced to GND)



EMC emissions & immunity standards: This product conforms to the requirements of the EMC Directive 2004/108/EC through product standard EN 60730-1.

RoHS: This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council.

Universal inputs UI1, UI2

Configured as PT1000 input (factory setting)	-40...+60°C or -40...+140°F (± 0.5 K accuracy)
Configured as Ni1000 input	-40...+60°C or -40...+140°F (± 0.5 K accuracy - 6180 ppm/K)
Configured as digital input	Potential-free contacts on/off (closed=on)
Configured as 0...10 V input	$\pm 1\%$ full scale accuracy

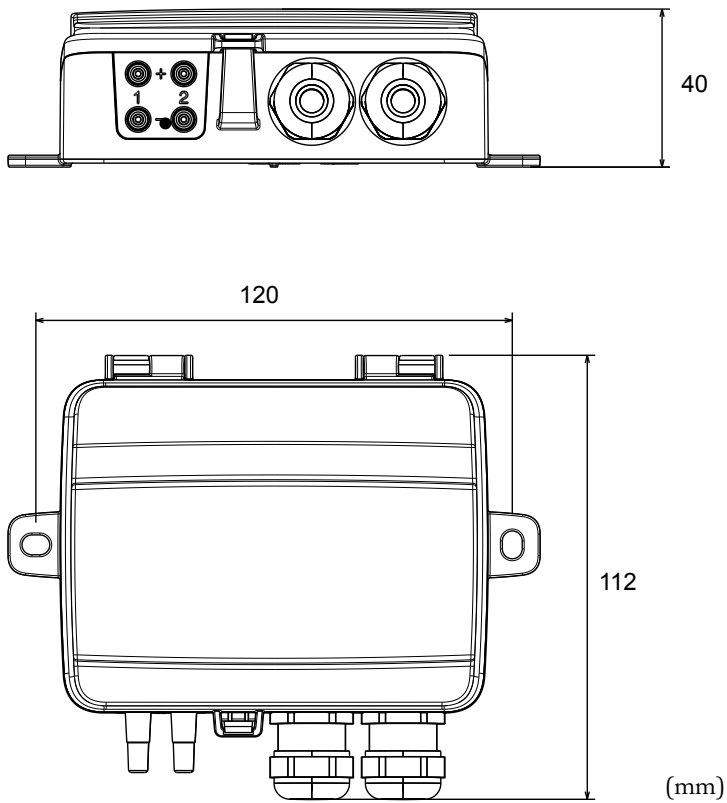
Pressure ranges (full scale)

		Pa (factory setting)	mBar	mmH ₂ O	inH ₂ O
PDT12C	PS1	0...1250	0...12.5	0...125	0...5
PDT25C	PS1	0...2500	0...25	0...250	0...10
PDT75C	PS1	0...7500	0...75	0...750	0...30
PDT12C-2	PS1	0...1250	0...12.5	0...125	0...5
	PS2	0...1250	0...12.5	0...125	0...5
PDT12S25C-2	PS1	0...1250	0...12.5	0...125	0...5
	PS2	0...2500	0...25	0...250	0...10
PDT25C-2	PS1	0...2500	0...25	0...250	0...10
	PS2	0...2500	0...25	0...250	0...10
PDT12S75C-2	PS1	0...1250	0...12.5	0...125	0...5
	PS2	0...7500	0...75	0...750	0...30

Flow ranges (full scale)

l/s	0...31000
m ³ /h (factory setting)	0...65000
CFM [Ft ³ /min]	0...65000

Dimensions



Product documentation

Document	Type
Manual Presigo PDT..	Manual with complete information on PDT... including variable list
Instruction Presigo PDT..	Instruction for PDT...

The product documentation can be downloaded from www.regincontrols.com.