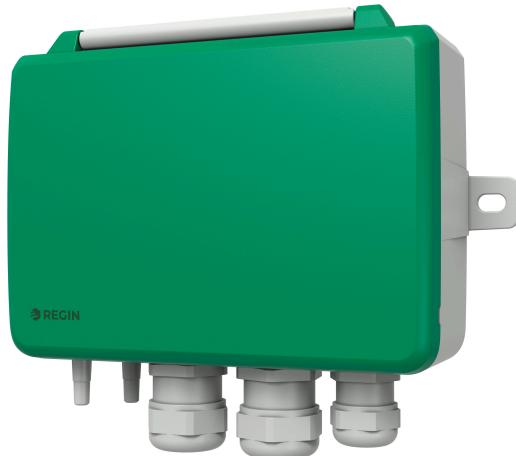


PDTX...-C

Differential pressure transmitter
with communication



Differential pressure transmitters, 24 V, with two universal inputs, two universal outputs and communication via Modbus.

- ✓ Uses a sensor technology that offers very high accuracy and excellent long-term stability
- ✓ Easy installation and setup
- ✓ Expands the controller by up to four inputs and two outputs
- ✓ Ambient temperature -25...+50 °C
- ✓ Can be mounted vertically or horizontally

Application

Presigo PDTX...-C is a range of pressure transmitters equipped with one or two pressure sensors, two universal inputs, two universal outputs and an RS485 port for Modbus communication.

This range of pressure transmitters is especially well suited as distributed I/O modules for air handling unit controllers. They are designed for easy installation together with Regin's Corrigo or EXOcompact controllers.

Function

The transmitter operates as a Modbus slave, relieving the controller of up to two analogue pressure inputs, two universal inputs and two universal outputs. This means

that less wiring is required, reducing both material costs as well as the amount of work needed.

Due to the use of MEMS dual-chip medical grade sensor the transmitter offers very high accuracy and excellent long-term stability.

Installation

When the transmitter is connected to a Corrigo controller, all values can be read in *Application tool*, Regin's PC-based software that enables comprehensive configuration and supervision of an installation via a graphical interface.

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.

Installing the product is made easily since the unit has three separate cable inlets, a large angled terminal and generous space. The communication configuration is both flexible and easy as it can either be done via a menu system, which is easy to navigate, or via Modbus.

Technical data

General data

Supply voltage	24 V AC/DC (21...27 V AC/DC)
Protection class	IP54
Power consumption	< 4 VA
Ambient humidity	0...95 % RH (non-condensing)
Ambient temperature	-25...+50 °C
Working range, pressure	0...1250 / 0...2500 / 0...7500 Pa (factory setting) 0...12 / 0...25 / 0...75 mbar 0...127 / 0...254 / 0...764 mmH ₂ O 0...5 / 0...10 / 0...30 inH ₂ O
Working range, flow	0...65000 m ³ /h (factory setting) 0...31000 l/s 0...65000 Ft ³ /min
Cable glands	2 x M20 (cable diameter 5...12 mm) 1 x M16 (cable diameter 3.5...10 mm)
Max overvoltage	±18 V, on any terminal (not G and G0)
Electronic damping	0 s (0...120 s)
Accessories, included	Two pressure outlets (straight) and 2 m plastic tube. Art. no.: ANS-20
Dimensions, external (WxHxD)	167 x (~130) x 46 mm
Weight, incl. packaging	0,39 kg

Pressure data

Media	Air, non-combustible and non-aggressive gases
Annual deviation	±2 Pa (1250 Pa) ±4 Pa (2500 Pa) ±20 Pa (7500 Pa)
K-factor	5 (5...700)

Universal Input, UI1 and UI2

Universal inputs (UI)	2
Configuration	AI (AI / DI), see specifications below

Configured as AI:

Analogue inputs (AI)	0...10 V (0...10 V / PT1000 / Ni1000-01)
Accuracy	± 1 % (0...10 V) ± 0.5 K (PT1000/Ni1000-01)
Measuring range, temperature	-40...+60 °C

Configured as DI:

Digital input (DI)	Potential-free contacts on / off (on = closed)
Output current	0.5 mA (max 2.5 V)

Universal output, UO1 and UO2

Universal outputs (UO)	2
Configuration	AO (AO / DO), see specifications below

Configured as AO:

Analogue outputs (AO)	0...10 V
Load impedance, 0...10 V	Min. 10 kΩ
Accuracy	± 1 %

Configured as DO:

Configuration	Mosfet outputs, 24 V AC or DC, 2 A continuous
Power output	Max. 2 A (total UO1 + UO2)

Communication port data

Communication ports	1
Port type	RS485
Supported protocols	Modbus
Port isolation	Non-isolated
Cable length	Max 100 m

CE

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)

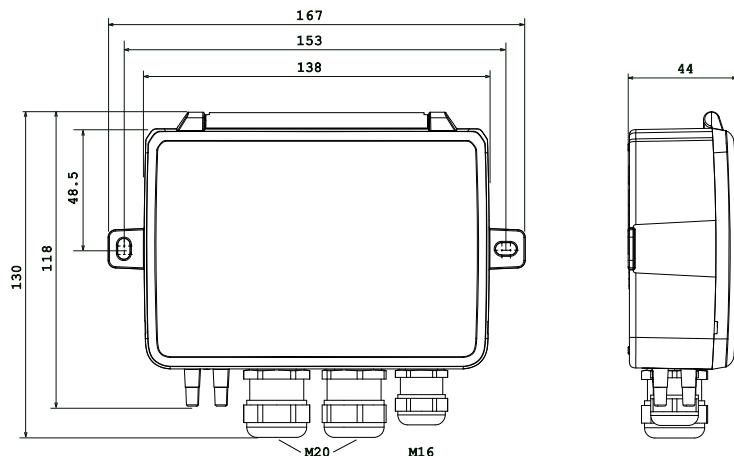
Models

Article	Number of sensors	Max overload pressure (kPa)	Measuring range, pressure (Pa)
PDTX12-C	1	25	0...1250
PDTX25-C	1	50	0...2500
PDTX75-C	1	120	0...7500
PDTX12-2-C	2	25 / 25	0...1250 (sensor 1) / 0...1250 (sensor 2)
PDTX25-2-C	2	50 / 50	0...2500 (sensor 1) / 0...2500 (sensor 2)
PDTX12S25-C	2	25 / 50	0...1250 (sensor 1) / 0...2500 (sensor 2)
PDTX12S75-C	2	25 / 120	0...1250 (sensor 1) / 0...7500 (sensor 2)

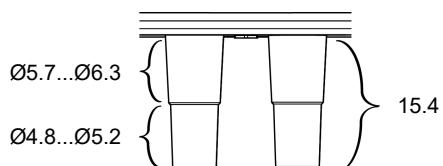
Accessories

Article	Description
ANS-1	2 m plastic tube and two pressure outlets (cut 60°)
ANS-20	Two pressure outlets (straight) and 2 m plastic tube

Dimensions



Dimensions, pressure outlets:



[mm]

Documentation

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