

Pressure Transmitter

PRO-PDT



Description

PRO-PDT is a pressure transmitter used for the Fire System Pro. It is equipped with one pressure sensor, two universal inputs, two universal outputs and an RS485 port for Modbus communication.

Function

The transmitter operates as a Modbus slave, relieving the controller of an analogue pressure input, 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.

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.

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.

Material

Housing: Polycarbonate (PC)

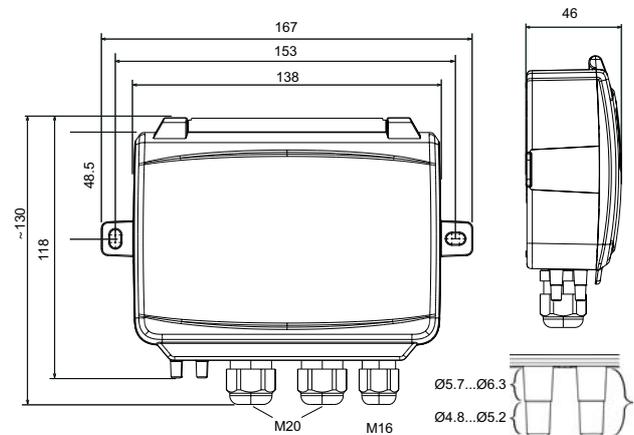
Base: Polycarbonate (PC)

Ordering example

PRO-PDT

Product

Dimensions



Technical data

Number of sensors	1
Max overload pressure (kPa)	25
Measuring range, pressure (Pa)	0...1250
Supply voltage	24 V AC/DC (21...27 V AC/DC)
Power consumption	< 4 VA
Protection class	IP54
Ambient humidity	0...95 % RH (non-condensing)
Ambient temperature	-25...+50°C
Working range, pressure	0...1250 (factory setting) 0...12 0...127 mmH ₂ O 0...5 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.
Weight, incl. packaging	0,39 kg

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Pressure data

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

Communication port data

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



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

Inputs and outputs

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 Input, 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)