

Product Datasheet

DPTx Pressure Transmitter



Overview

The DPTx range of differential pressure transmitters from Sensing Precision Ltd are ideal for HVAC installations that use Wilson Flowgrids to monitor in duct pressures, velocities and flowrates.

There are two standard models of the DPTx. The DPTx-250, $\pm 250\text{Pa}$, and the DPTx-500, $\pm 500\text{Pa}$. All DPTx's are equipped with industry standard 4-20mA and 0-10V outputs. Each output can be scaled against either pressure, velocity or flowrate with a configurable range setting for each output.

What sets the DPTx apart from most other transmitters is the LCD Display which is fitted as standard, and the menu driven graphical user interface, which makes installation and commissioning of the DPTx easy and straightforward.

The DPTx range of pressure transmitters also offer a RS485 MODBUS interface, with a limited subset of instructions, that can be utilised to interface the transmitter to a BMS controller.

Features

- Industry standard outputs: 4-20mA & 0-10V
- MODBUS over RS485 BMS interface
- Outputs scaled against Pressure, Velocity of Flowrate
- Independently configurable outputs
- +24V ac or +24V dc selectable supply voltage
- Easily configured K-Factor / M-Factor
- Enter the Duct Area in m^2 or ft^2
- Switch between measurement & units of measure from main screen
- Configurable ambient conditions
- Adjust the level of sensor damping 0.5 to 7.5s averaging
- Adjust the screen brightness
- Four operating languages: English, French, German & Spanish
- DPTx-250z and DPTx-500z models feature automatic zeroing and enhanced calibration accuracy when scaled to match our Wilson Flowgrid in specific applications.

Applications

- In Duct Pressure, Velocity & Flowrate Monitoring
- BMS Monitoring
- BMS Control Systems

Specifications

Outputs	0 – 10V
	4 – 20mA
BMS Interface	RS485 MODBUS
Pressure Measurement Range	DPTx-250 ±250 Pa
	DPTx-500 ±500 Pa
	DPTx-1500 ±1500 Pa
Accuracy	DPTx-250 ± 1 % ± 0.25 Pa
	DTPx-500 ± 1 % ± 0.50 Pa
	DPTx-250z ± 0.25 % ± 0.1 Pa
	DTPx-500z ± 0.5 % ± 0.1 Pa
	DPTx-1500z ± 1 % ± 1 Pa
Maximum Current Output Resistance	700 Ω
Minimum Voltage Output Resistance	10k Ω
Sensor Damping	0.5s to 7.5s
Power	1.7 W
Voltage Options (User Selectable)	+24V dc
	+24V ac
Unit Size	160mm x 113mm x 60mm
Unit Weight	360g
Included Accessories	Calibration Certificate PVC Pressure Tubing User Guide