

AIR HANDLING CONTROLLER



DPT-CTRL

DPT-CTRL is a multifunctional PID controller with differential pressure or air flow transmitter. It enables controlling constant pressure or flow of fans, VAV systems or dampers. When controlling flow, it is possible to select a fan manufacturer or a common measuring probe that has a K-value.

USAGE & APPLICATIONS

DPT-CTRL can be used to control air flow or constant pressure in applications where it is important to keep a constant vacuum or a steady air flow, such as vacuuming units in renovation sites that keep a constant negative pressure so that impurities do not spread to other spaces.

TECHNICAL DETAILS

Accuracy (from applied pressure): (models 250 and 2500)	Pressure < 125 Pa = 1 % + ±2 Pa Pressure > 125 Pa = 1 % + ±1 Pa
Accuracy (from applied pressure): (model 7000)	Pressure < 125 Pa = 1.5 % + ±2 Pa Pressure > 125 Pa = 1.5 % + ±1 Pa
Measuring units:	Pressure: Pa, kPa, mbar, inchWC, mmWC, psi Flow: m ³ /s, m ³ /hr, cfm, l/s, m/s, ft/min
Control signal:	0...10 V or 4...20 mA (selectable by jumper)
Output signal for pressure or air flow (selectable via menu):	0...10 VDC, Load R minimum 1 kΩ or 4...20 mA, maximum load 500 Ω (selectable by jumper)
PID-parameters:	Adjustable via menu
Zero point calibration:	Automatic with autozero element (-AZ) or by pushbutton
Supply voltage:	24 VDC ±10 % / 24 VAC ±10 %
Power consumption:	< 1.0 W
Operating temperature:	-10...+50 °C (with autozero calibration -5...+50 °C)
Protection standard:	IP54

DPT-CTRL

Example: DPT-Ctrl-2500-AZ-D	Product series DPT-Ctrl	Air handling controller
	Model type	Analog outputs
	-MOD	Modbus communication
	Measuring ranges (Pa)	
	-2500	0...2500
	-7000	0...7000
	Zero point calibration	
	-AZ	With autozero calibration (not available for Modbus model)
		Standard with pushbutton manual zero point calibration
	Display	
	-D	With display
Model	DPT-Ctrl	-2500 -AZ -D

