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): Pressure $< 125 \text{ Pa} = 1 \% + \pm 2 \text{ Pa}$ (models 250 and 2500) Pressure $> 125 \text{ Pa} = 1 \% + \pm 1 \text{ Pa}$ Accuracy (from applied pressure): Pressure $< 125 \text{ Pa} = 1.5 \% + \pm 2 \text{ Pa}$

(model 7000) Pressure > 125 Pa = 1.5 % + ±1 Pa

Measuring units: Pressure: Pa, kPa, mbar, inchWC, mmWC, psi

Flow: m3/s, m3/hr, cfm, l/s, m/s, ft/min

Control signal: 0...10 V or 4...20 mA (selectable by jumper)

Output signal for pressure 0.. or air flow (selectable via menu): (se

0...10 VDC, Load R minimum 1 k Ω 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: $24 \text{ VDC} \pm 10 \% / 24 \text{ VAC} \pm 10 \%$

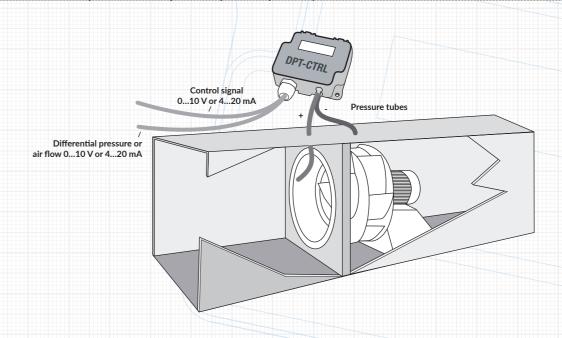
Power consumption: < 1.0 W

Operating temperature: -10...+50 °C (with autozero calibration -5...+50 °C)

Protection standard: IP54

DPT-CTRL

Example:	Product series					
DPT-Ctrl-2500-AZ-D	DPT-Ctrl	Air handling controller Model type				
		Analog outputs				
		-MOD Modbus communication				
			Measuring ranges (Pa)			
			-2500	-2500 02500 -7000 07000 Zero point calibration		
			-7000			
				-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	





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