

Differential Pressure Controller DPC 200



**Low pressure sensor
with PI controlling mode**

- Diaphragm element with differential transformer
- Measuring range from 0...50 Pa up to 0...6000 Pa
- alphanumeric LCD-display
- Analog output 0...10 V
- Controlling mode or measuring mode selectable
- Controlling mode with PI algorithm
- 2 setpoints adjustable
- Selectable measurands (diff. pressure or volume flow)
- Selectable units (metric or imperial)
- Maximum output voltage adjustable
- Supply voltage 10...30 Vdc; 24 Vac (+/-15%)
- compact plastic housing IP 54

The differential pressure sensor DPC200 serve for measuring low pressure of non-aggressive gases, particularly of air.

The customer can use an analog signal (0...10V). The device offers two different settings. On the one hand the output signal stands for a pressure proportional signal during measuring mode, or the output is the square root signal during volume flow measurement.

And on the other hand the output signal stands for a PI control signal during controlling mode. The device can control differential pressure and volume flow.

This device is mainly for e.g. in air conditioning systems for fan controlling, for pressure control of rooms or filter controlling.

Technical data

Measuring medium:	Air or non-aggressive gases
Measuring principle:	Silicon diaphragm with spring and differential transformer
Lowest span:	0...50 Pa
Highest span:	0...6000 Pa
Overpressure protection:	0,2 bar
Static pressure:	max. 0,2 bar
Pressure connections:	hose liners 5 mm \varnothing and 6 mm \varnothing
Case:	Case polyamid, cover ABS
Supply voltage:	10...30 Vdc or 24 Vac \pm 15 % Electronic protection against faulty polarization
Current consumption:	approx. 12 mA (@24 Vdc)
Output:	0...10 V
Display:	LCD-Display, 2x16 characters
Mode:	Measuring mode or controlling mode
Controlling algorithm:	PI
Setpoints:	2 setpoints adjustable within software, Setpoints are selectable with floating contact input
Protection class:	IP 54 according EN60529
Ambient temperature:	0...+50 °C
Weight:	approx. 90 g
Mounting:	vertical, position dependence by turning of 90°: approx. 25 Pa
Interference emission:	According EN 50081-2, EN 50082-2, CE
Influences limits:	Zero error: \pm 0,75 % Sum of linearity and hysteresis (depends on measuring range): \pm 0,5 % Temperature drift, zero point: \pm 0,3 % / 10 K Temperature drift, span: \pm 0,2 % / 10 K

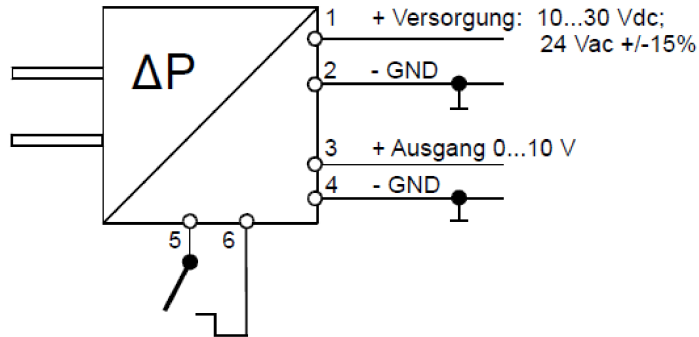
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measuring & controlling systems

Electrical connection



Dimensions (mm)

