



## DMD-C

Differential pressure transmitter with built-in controller and display

*Differential pressure transmitter for use in air and non-corrosive gases. For control of dampers, frequency converters, VAV systems etc.*

- ✓ Built-in controller
- ✓ Four measuring ranges
- ✓ LED Display

### Application

The pressure transmitter is used for measuring differential pressure in air and non-corrosive gases. The main application is intended for pressure control in air handling systems.

The small number of moving parts in the transmitter permits a high degree of accuracy and short response time. Another important quality is that the ceramic element has very good long-term stability.

### Function

The differential pressure transmitter has a built-in controller with PID-function where all parameters are adjustable. The control function has an output signal which can be zero-point adjusted easily. It is also equipped with electronic damping to counteract rapid fluctuations in the output signal.

Pressure measurements are obtained by means of a sensor that uses a ceramic measuring beam. The differential pressure affects a membrane that works directly against the measuring beam. A thick-film resistor is mounted in the bending area of the measuring beam. When the measuring beam bends, the resistance value changes. The

change is converted to a proportional output signal via the built-in electronics.

The differential pressure transmitter is based on microprocessor technology and has a logical menu system for selecting suitable settings.

### Installation

The setting of measuring range, setpoint, electronic damping, PID-settings and zero-point adjustments are made in the menu system, using buttons under the front cover. The unit should preferably be mounted vertically.

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## Technical data

<b>Supply voltage</b>	24 V AC/DC (21...27 V AC/DC)
<b>Power consumption</b>	5 VA
<b>Load impedance, 0...10 V</b>	> 2 k $\Omega$
<b>Load impedance, 4...20 mA</b>	< 500 $\Omega$
<b>Protection class</b>	IP54
<b>Ambient humidity</b>	Max. 90 % RH (non-condensing)
<b>Ambient temperature</b>	0...50 °C
<b>Storage temperature</b>	-40...+50 °C
<b>Media temperature</b>	0...70 °C
<b>Max. overload pressure</b>	20 kPa
<b>Mounting</b>	Wall
<b>Media</b>	Air and non-corrosive gases
<b>Measuring range, pressure</b>	0...100 / 0...300 / 0...500 / 0...999 Pa
<b>Output signal, pressure</b>	0...10 V DC / 4...20 mA
<b>Temperature dependency, pressure</b>	$\pm 0.05$ %/°C
<b>Accuracy, pressure</b>	$\pm 1$ % full scale at 20 °C
<b>Display</b>	Yes
<b>Display type</b>	LED, three digits
<b>Setpoint range</b>	0...999 Pa depending on selected measuring range
<b>Output signal, controller</b>	0...10 V DC
<b>Cable connection</b>	Screw terminals max. 1.5 mm <sup>2</sup> (AWG 16)
<b>Pressure connection</b>	Connection pipes for 6 mm tube
<b>Electronic damping</b>	0...20 s
<b>Zero-point adjustment</b>	Manual
<b>P-band</b>	0...300 %
<b>I-time</b>	0...999 s
<b>D-factor</b>	0...999
<b>Dimensions, external (WxHxD)</b>	89 x 129 x 58 mm
<b>Weight (incl. packaging)</b>	0.39 kg
<b>Accessories, included</b>	2 pressure outlets (article MTU) and 2 m plastic tube, 6 mm



This product carries the CE-mark. More information is available at [www.regincontrols.com](http://www.regincontrols.com).

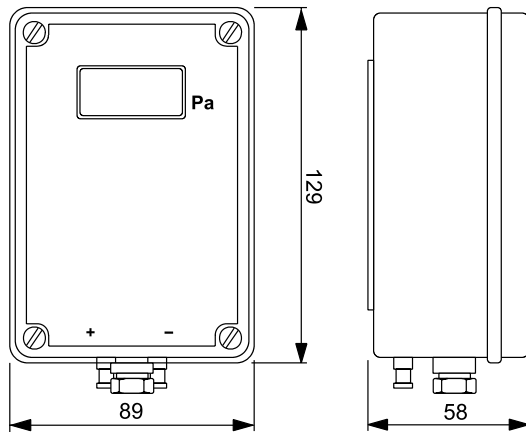
## Material

<b>Material, housing</b>	Polycarbonate (PC)
<b>Material, membrane</b>	Silicone rubber

## Accessories

Article	Description
ANS-3	2 m plastic tube and two pressure outlets (metal, 90° angle)
ANS-20	2 m plastic tube and two pressure outlets (straight)

## Dimensions



[mm]

## Wiring

Terminal	Description
1	Supply voltage
2	System neutral
3	Signal neutral
4	Output signal, 0...10 V DC
5	Output signal, 4...20 mA
6	Output signal, controller
7-8	<i>Not used</i>
9	Ground

## Documentation

All documentation can be downloaded from [www.regincontrols.com](http://www.regincontrols.com).