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Differential pressure controllers

- The differential pressure controller is a universal measuring transducer especially for small differential pressures (<100 mbar)
- The actual differential pressure is indicated digitally with 4-digits
- The device has two switching thresholds for monitoring and control purposes
- An additional threshold is used for monitoring a maximum differential pressure

Technical Data

Power supply:

230 V a.c., 50 ... 60 Hz, $\pm 10\%$
24 V d.c., -16%/+50%

Power consumption:

<3 VA

Ambient temperature:

-10 ... +50°C (14 ... 122°F)

Measuring system:

Semi-conductor sensor

Medium:

Air as well as dry,
non-aggressive gases

Measuring range:

0 ... 25/50/100 mbar

Pressure connection:

Pipe connection
G1/4 inside thread
Option: 4 mm, 6 mm
hose nipple

Analogue output:

0(4) ... 20 mA

Pressure connection:

Pipe connection G1/4
inside, hose nipple

Relay switching outputs:

1 change-over contact
for cleaningContact rating 250 V a.c.,
5 A resp. 110 V d.c., 1 A1 change-over contact
for Δp -AlarmContact rating 250 V a.c.,
5 A resp. 110 V d.c., 1 A

Accuracy:

Basic accuracy
 $\pm 1\%$ of end valueTemperature drift
 $\pm 0,05\%/K$ of end value

Electrical connections:

Spring clamp terminals,
1.0 mm² finely stranded,
1.5 mm² single stranded

Approval:

Ⓢ II 3D Ex tc IIIC T135°C DC IP65

Measuring:

122 x 120 x 55 mm



● Technical data - standard models

Measuring range (mbar)	Model Inlet voltage in 24 V d.c.	Model Inlet voltage in 230 V a.c.
0 ... 25	8349900.0000.02400	8349900.0000.23059
0 ... 50	8349901.0000.02400	8349901.0000.23059
0 ... 100	8349902.0000.02400	8349902.0000.23059
0 ... 500	8349903.0000.02400	8349903.0000.23059

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Differential pressure controllers

- Differential pressure controller for differential pressure ranges of 35, 90 or 450 mbar
- The operating range for dedusting is defined by a lower threshold and an upper threshold in this compact controller
- The wide-range power supply for 100 – 240 V a.c. enables worldwide using, operation with 24 V d.c. is possible
- To adjust the controller there is a keypad directly on the device

Technical Data

Power supply:

100 ... 240 V a.c.,
50 ... 60 Hz, ±10%
24 V DC, ±10%

Power consumption:

<5 VA

Ambient temperature:

-20 ... +50°C (-4 ... 122°F)

Medium:

Air as well as dry,
non-aggressive gases

Displays:

7-segment display
3-digit, 14 mm height, red

Measuring range:

0 ... 35/90/450 mbar

Analogue output:

4 ... 20 mA, galvanically isolated

Measuring tube connection:

Ø 6 mm (quick connector)

Approval:

Ⓢ II 3D Ex tc IIC T135°C DC IP65

Measuring:

130 x 130 x 60 mm



● Technical Data - standard models

Measuring range (mbar)	Model Inlet voltage in 100 ... 240 V a.c., 24 V d.c.
0 ... 35	8349910.0000.00000
0 ... 90	8349912.0000.00000
0 ... 450	8349913.0000.00000

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Differential pressure controller with integrated measuring hose cleaning

- Differential pressure controller for differential pressure ranges of 35, 90 or 450 mbar
- Incorrect measurement is prevented thanks to the integrated measuring hose cleaning
- The compact "2-in-1-device" facilitates the installation and doesn't need an adjustment between differential pressure controller and a separate measuring hose cleaning
- The wide-range power supply (100 ... 240 V a.c.) of the differential pressure controller enables worldwide using
- To adjust the controller there is a keypad directly on the device

Technical Data

Power supply:

100 ... 240 V a.c.,
50 ... 60 Hz, ±10%
24 V DC, ±10%

Power consumption:

<3 VA

Ambient temperature:

-20 ... +50°C (-4 ... 122°F)
Ex area 22:
-20 ... +40°C (-4 ... 104°F)

Medium:

Air as well as dry,
non-aggressive gases

Displays:

7-segment display
3-digit, 14 mm height, red

Measuring range:

0 ... 35/90/450 mbar

Analogue output:

4 ... 20 mA,
galvanically isolated

Measuring hose connection:

Ø 6 mm and compressed air
Ø 8 mm with quick connectors

Approval:

Ⓢ II 3D Ex tc IIIC T135°C DC IP65

Measuring:

200 x 150 x 100 mm



● Technical Data - standard models

Measuring range (mbar)	Typ Inlet voltage in 100 ... 240 V a.c., 24 V d.c.
0 ... 35	8349920.0000.00000
0 ... 90	8349922.0000.00000
0 ... 450	8349923.0000.00000