

Programmable differential pressure transmitter for pressure or flow measurement, supervision and control

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MicaFlex PFA

Application

MF-PFA is a programmable differential pressure transmitter for measurement, control and supervision of pressure and flow for ventilation- and "Clean room"-applications.

- Two outputs for volt or mA, programmable for actual value and for control
- Two separate alarm relays for high or low level with separate time delays
- Alarm is indicated with a red LED and a buzzer
- Manual test and reset of alarm
- Includes PI-controller
- Key lock function to prevent unauthorized programming

With each MF-PFA follows a calibration protocol.

Installation

MF-PFA is designed to be placed on a wall or recessed through a wall or cabin-door. When mounting the enclosure in a recessed position, a mounting kit, MFM-Panel is used.

Design

MF-PFA is equipped with an alphanumeric 2-row LCD display with 2x16 characters. Setting and programming is made with the keypad on the front cover. Indication is possible of two actual values simultaneously.

MF-PFA has two analogue outputs which via the menu system may be used for output of actual pressure/flow value or control.

The output is possible to set between 0/2...10 VDC or 0/4...20 mA.

The output signal is possible to scale within the selected range for pressure and flow.

Power supply

MF-PFA is designed for power supply 24 VAC or 20...32 VDC.

For other supply voltages or for galvanic separation there are transformers (external) available as options.



Alarm

MF-PFA is as standard equipped with alarm function.

- Two potential free changing relay contacts.
- Acoustic and visible alarm
- Manual test/reset via keypad on the front or external push button.

The alarm function has two separate alarm levels, to be set for pressure or flow. High- or low alarm level, time delay, buzzer and reset function is possible to set individually for each alarm.

At normal the alarm function is possible to test via keypad Test/Reset-key or via an external push button.

At alarm reset is possible via keypad test/reset or via external push button.

Reset is possible to be programmed for set time or until normal state is achieved.

The acoustic alarm is programmable to be activated or inactivated.

Technical data

Indicator: Alphanumeric LCD,
2 rows, 2 x 16 characters

Pressure range: -50...+50 Pa
0...100 Pa
0...200 Pa
0...500 Pa
0...1 kPa
0...2 kPa
0...5 kPa
Other pressure ranges available on request

Measurement error: $\pm 0,5$ % of pressure range

Temperature drift: $\pm 0,5$ % /10 °C

Damping: 0...9,9 sec.

Output: Two analogue outputs
0/2...10 VDC, 0/4...20 mA
selectable and scalable

Ambient temperature: 0...50 °C

Alarm: Two separate changing alarm relay outputs, high & low alarm.
Red alarm indication and Buzzer.

Max. Load

alarm contact: 48 VAC - 5A/48 VDC - 1,5A

Buzzer: 85 dB (10 cm)

Power supply: 24 VAC ± 15 %
20...32 VDC

Power consumption: 5 VA

Housing-

class: IP 65, ABS plastic

Electrical

connection: Max 1 x 1.5 mm² per terminal

Cable entry: 3 x M16x1,5
(cable conn. not included)

Dimensions: WxHxD 122 x 120 x 90mm

Weight: 0,7 kg

Service

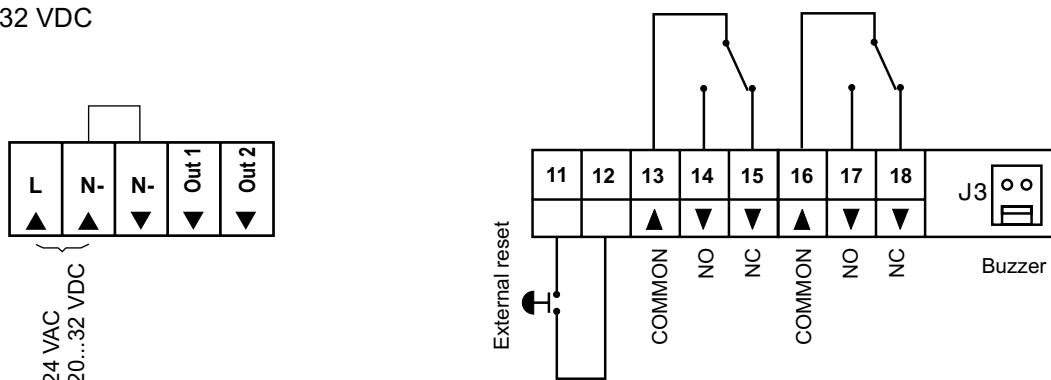
Check the zero-point every 6 months.

Accessories

- Mounting kit VR-DR
- HT-plastic tubing 8/6 yellow, per metre or roller 50 m
- Manifold valve 2-TK
- MFM-Panel (wall/cabin-door) mounting kit
- Mounting kit for DIN-rail
- Measurement outlet room, VM-2
- External transformer 24, 115, 230 VAC

Electrical connection

24 VAC, 20...32 VDC



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