

Microprocessor based differential pressure transmitter

- Measurement ● Supervision ● Pressure
- Control ● Flow

Data sheet: MD-1293Gb_2001-03-22
Supersedes:

MicaFlex MF-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
- ☐ Manuel test and reset of alarm
- ☐ Includes PI-controller

With each MF-PFA follows a calibration protocol.

Installation

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

Design

MF-PFA is equipped with an alphanumeric 2-line display with 32 signs. Setting and programming is made with four keypads on the front. Indication is possible of two parameters 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 is possible to scale from 10...100 % of the selected range.

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 alarmfunction.

- ☐ Two potentialfree changing relay contacts.
- ☐ Acoustic and visible alarm
- ☐ Manuel test/reset via keypad on the front or external push button.

The alarmfunction 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 alarmfunction is possible to test via keypad test/reset or via 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 statue is achieved.

The audible alarm is programmable to be activated or inactivated.

Technical data

Indicator: Alphanumeric, 2-line, 32 signs
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:

<± 0,5 % of pressure range

Temperature drift:

<± 0,5 % /10 °C

Damping:

0...9,9 sec.

Output:

Two analogue outputs
0/2...10 VDC, 0/4...20 mA
selectable and scaleable

Ambient temperature:

0...50 °C

Alarm:

Two separate alarm,
(visible) high & low
Red alarm indication

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:

3 VA

Housing-class:

IP 65, ABS plastic

El-connection: Max 2 x 1.5 mm² per terminal

Cable-entry:

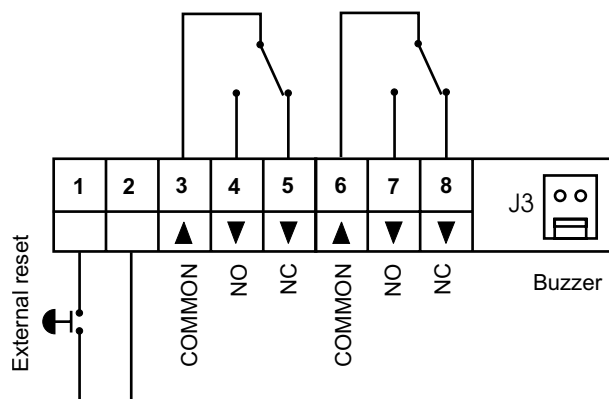
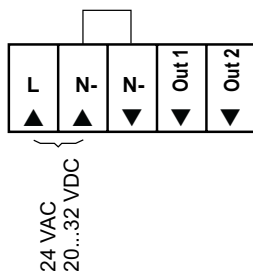
2 pcs Pg 11 / Pr 18,6
(cable conn. not included)

Dimensions: WxHxD 120 x 122 x 90mm

Weight: 0,7 kg

Electrical connection:

24 VAC, 20...32 VDC



Service

Check the zero-point every 6 months.

Accessories

- ☐ Mounting kit VR-DR
- ☐ HT-plastic tubing 8/6 yellow, per meter 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

AB Micatrone
Dalvägen 8
SE-169 56 SOLNA
SWEDEN

Telephone: +46 8470 25 00
Telefax: +46 883 27 80
Internet: www.micatrone.se
E-mail: info@micatrone.se