

## Micaflex PFT ver 3. Pressure- and Flow transmitter with control output

## MF-PFT ver 3.x

### APPLICATION

MF-PFT is a programmable microprocessor controlled transmitter/controller for measurement and control of differential pressure or flow. With the four keys on the front panel it is possible to access all functions, make settings and scaling the output signal. The double row, 2x16 character, LCD with backlight displays functions and values.

### MOUNTING

MF-PFT is designed for wall mounting but can be fitted with an optional frame kit, MFM-PANEL, for recessed mounting on wall or through a cabinet door.

### OUTPUT SIGNAL

MF-PFT has two analogue output signals which can be used for pressure, flow and control signal. Each output has three terminals, one for Volt DC, one for mA DC and one common zero. The outputs permit using both mA and Volt signal simultaneously.

### SUPPLY VOLTAGE

MF-PFT is connected to 24 VAC or 20...32 VDC. Built-in transformer is optional.

### ALARM

MF-PFT has two alarms, each independent of the other. The alarm is acoustic with beeper and visual with LED indication for pressure or flow, high or low alarm level and manual or automatic reset.

### CERTIFICATE

Traceable certificate of calibration included.



### ACCESSORIES:

- ☐ Modbus RTU data communication module with RS-485 interface
- ☐ Module for automatic zero setting
- ☐ Separate display unit for remote placement up to 30m beyond main unit. Two separate display units can be connected to the same main unit
- ☐ Mounting kit for recessed mounting
- ☐ Transformer internal or external 230 VAC
- ☐ Mono block valve for manual zero setting and control

## TECHNICAL DATA:

|                           |   |
|---------------------------|---|
| <b>Display:</b>           | Alphanumeric LCD<br>2 row, 2x16 characters<br>with backlight  |
| <b>Power supply:</b>      | 24 ± 15% VAC<br>20...32 VDC   |
| <b>Pwr consumption:</b>   | Max 3 VA (24VAC)  |
| <b>Pressure range:</b>    | -50...+50 Pa<br>0...50 Pa<br>0...100 Pa<br>0...200 Pa<br>0...500 Pa<br>0...1 kPa<br>0...2 kPa<br>0...5 kPa<br>other ranges available on request |
| <b>Measurement error:</b> | < ± 0,5 % of the pressure<br>range ± 0,5 Pa   |
| <b>Temperature drift:</b> | < ± 0,5 % /10 °C  |
| <b>Damping:</b>           | 0,0...9,9 sec.  |
| <b>Output signal:</b>     | Two analogue outputs,<br>0/2...10 VDC, 0/4...20 mA<br>selectable and scalable.<br>Both mA and Volt output<br>can be used simultaneously         |
| <b>Ambient temp:</b>      | 0...50°C  |
| <b>Alarm:</b>             | Two separate alarms for<br>high & low level, alarm<br>indication with red LED and<br>buzzer (joint)   |

|                              |  |
|------------------------------|--|
| <b>Degree of protection:</b> | IP 65, ABS plastic                             |
| <b>EI-connection:</b>        | 1 x 2,5 mm <sup>2</sup> / terminal             |
| <b>Cable entries:</b>        | 4 pcs M16x1.5mm<br>(cable glands not included) |
| <b>Dimensions:</b>           | WxHxD = 122x120x90 mm                          |
| <b>Weight:</b>               | 0,81 kg  |

### MAINTENANCE:

Check zero settings every 6:th. month.

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### EMC/LVD:

Applied EU directives:

|       |  |
|-------|--|
| - EMC | SS-EN 61000-6-3:2007 + A1:2011<br>SS-EN 61000-6-2:2005 + C1:2005 |
| - LVD | SS-EN 61010-1:2010   |

## ELECTRICAL CONNECTION:

Main connection board

| 24 VAC/VDC |        | Output 1 |            |        | Output 2 |            |        |
|------------|--------|----------|------------|--------|----------|------------|--------|
|            |        |          |            |        |          |            |        |
| G (+)      | G0 (-) | Volt (+) | Ground (-) | mA (+) | Volt (+) | Ground (-) | mA (+) |

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