

Micaflex PFC ver 3.

Pressure- and Flow controller with output for actual value and control

**MF-PFC
ver 3.x**

APPLICATION

MF-PFC 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-PFC 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-PFC has two analogue output signals which can be used for pressure, flow or control signal. Each output has three terminals, one for Volt DC, one for mA DC and one common zero. The outputs allow both the Volt and mA signals to be used simultaneously. If the unit is fitted with built-in automatic zero-setting module MFM-ZP, it is connected to output 2 (Volt or mA). It is still possible to use the free output signal on output 2 for the selected source.

INPUTS

SPD voltage-free contact and SPC 0/2...10 VDC or 0/4...20mA.

SUPPLY VOLTAGE

MF-PFC is connected to 24 VAC or 20...32 VDC.

ALARM

MF-PFC 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 external 230 VAC
- ☐ Mono block valve for manual zero setting and control

TECHNICAL DATA:

Display:	Alphanumeric LCD 2 row, 2x16 characters with backlight
Power supply:	24 ± 15% VAC 20...32 VDC
Pwr consumption:	Max 3 VA (24VAC)
Pressure range:	-50...+50 Pa 0...50 Pa 0...100 Pa 0...200 Pa 0...500 Pa 0...1 kPa 0...2 kPa 0...5 kPa other ranges available on request
Measurement error:	< ± 0,5 % of the pressure range ± 0,5 Pa
Temperature drift:	< ± 0,5 % /10 °C
Damping:	0,0...9,9 sec.
Output signal:	Two analogue outputs, 0/2...10 VDC, 0/4...20 mA selectable and scalable. Both mA and Volt output can be used simultaneously
Inputs:	SPD voltage-free contact. SPC 0/2...10 VDC, 0/4...20mA
Ambient temp:	0...50°C

Alarm:	Two separate alarms for high & low level. Alarm indication with red LED and buzzer (joint)
Degree of protection:	IP 65, ABS plastic
El-connection:	1 x 2,5 mm ² / terminal
Cable entries:	4 pcs M16x1.5mm (cable glands not included)
Dimensions:	WxHxD = 122x120x90 mm
Weight:	0,86 kg

MAINTENANCE:

Check zero settings every 6:th. month.

ACCESSORIES:

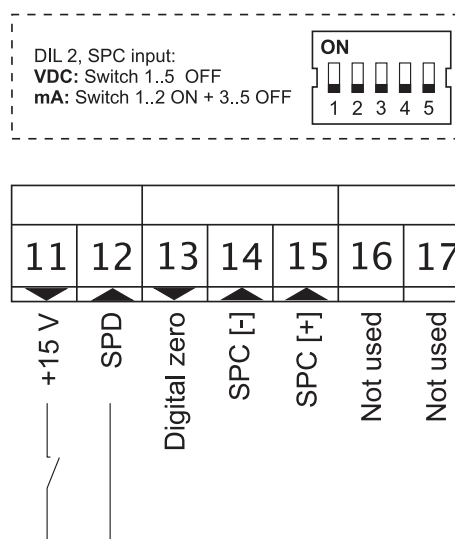
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EMC/LVD/RoHS II:

AB Micatrone declare under sole responsibility that MF-PFC is in conformity with the essential requirements in the EMC-, the LVD- and the RoHS II directive. The full text of Manufacturers declaration of conformity is available on Micatrones website.

ELECTRICAL CONNECTION:

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



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