

Micaflex PD ver 4.1 Differential Pressure transmitter for low pressure applications

MF-PD ver 4.1

- ✓ Accurate, stable and repeatable low differential pressure measurement
- ✓ Easy to read 7 segment display
- ✓ Output signal in Volt and mA
- ✓ Easy One-Key zero-setting
- ✓ Two selectable measuring ranges, full range or half range
- ✓ Selectable damping for smooth output signal
- ✓ Calibration certificate included
- ✓ Negative or Positive indication of pressure
- ✓ User calibration in 5 points



APPLICATION

The Micaflex PD is a low differential pressure transmitter specifically aimed towards HVAC control. Measurement ranges start as low as a 50 Pa full span. The transmitters can have their analogue signal trimmed for half range where appropriate, further driving this differential pressure to cleanroom pressure monitoring type applications.

All Micaflex differential pressure transmitters are manufactured in an ISO9001-compliant environment and are supplied with calibration certificates. Accuracy is within 0,5% of the full range plus 0,5 Pa. Analogue output signals are user selectable for 0-10V or 4-20mA.

MF-PD 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.

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

Traceable certificate of factory calibration included. Micaflex PD can be user calibrated in five measuring points.

ACCESSORIES

(combined built-in accessories are limited)

- ☐ Modbus RTU data communication module with RS-485 interface, built-in
- ☐ Alarm module, built-in
- ☐ Mounting kit for recessed mounting
- ☐ Transformer 230 VAC, built-in or external
- ☐ Mono block valve with easy access for reference pressure control.

ELECTRICAL CONNECTION

Main connection board				
24 VAC/VDC		Output		
G (+)	G0 (-)	G0 (-)	Out (V)	Out (mA)

TECHNICAL DATA:

Supply voltage:	24 ± 15% VAC, 20...32 VDC 230 VAC (with transformer) 50/60 Hz
Power consumption:	Max 4 VA (24 VAC) Max 2 W (24 VDC) Max 8 VA (230 VAC)
Range:	-50...+50 (-25...+25) Pa 0...50 (0...25) Pa 0...100 (0...50) Pa 0...200 (0...100) Pa 0...500 (0...250) Pa 0...1 (0...0,5) kPa 0...2 (0...1,0) kPa 0...5 (0...2,5) kPa Other ranges on request. Measuring range in brackets at half the measuring range.
Overload:	Max 50 kPa
Accuracy:	< ± 0,5 % of the full range plus ± 0,5 Pa (Min. ± 1 Pa)
Temperature drift:	< ± 0,5 % /10 °C
Damping:	Selectable time constants of 0.05, 0.7, 1.5 and 2.2 s.
Output signal:	4...20 mA max $R_L = 400 \text{ Ohm}$ 0...10 Volt $R_i = 0 \text{ Ohm}$ Both mA and Volt signal can be used simultaneously. 0 ... 20 mA can be ordered. Inverted signal can be ordered.
Ambient temp.:	0...50°C
Degree of protec.:	IP 65, ABS plastic

El. connections,	
- solid conductor:	1 x 2,5 mm ² / terminal
- stranded conductor:	1 x 1,5 mm ² / terminal
Cable entries:	2 pcs threaded holes M16x1,5 (cable glands not included)
Pressure. conn.:	8/6 mm HT-plastic tube
Dimensions:	WxHxD = 122x120x90 mm
Weight:	0.60 kg



CE and UKCA conformity

AB Micatrone declare under sole responsibility that MF-PD 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.

Service

MF-PD normally needs no service, but we recommend to check the zero point once a year.

RELATED KEY PRODUCTS:

Flow measurement with Micaflex FD:



Alarm module MFM-L1:



Pressure connection kit VR-DR:



Modbus RTU for PD/FD:



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