

Micaflex FD ver 4.1
Differential Pressure- & flow transmitter for
flow measuring in air

MF-FD
ver 4.1

- ✓ Output signal for airflow or pressure
- ✓ LED display
- ✓ Output signal in Volt (0...10 VDC) and milliamper (4...20 mA)
- ✓ Selectable damping
- ✓ Calibration certificate included
- ✓ User adjustment in five points
- ✓ Forced output signal



APPLICATION

The Micaflex FD (MF-FD) is a flow transmitter intended for measuring and monitoring airflow. MF-FD is designed to be used with flow sensors type MFS or similar and fans with integrated measuring outlet. MF-FD generates an analogue output signal in V or mA.

The primary measurement is the differential pressure over the flow sensor while the output signal and display gives airflow linear output signal and reading under normalized conditions (1013 mBar @ 20°C).

All Micaflex differential pressure transmitters are manufactured in an ISO 9001-compliant environment and are supplied with calibration certificates. Accuracy is within 0,5% of the full range plus 0,5 Pa.

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

Traceable certificate of factory calibration included. Micaflex FD can be user adjusted in five measuring points which is stored as a separate calibration table.

ACCESSORIES

(combined built-in accessories are limited)

- ☐ Flow sensors in series MFS
- ☐ 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:	0...50 Pa 0...100 Pa 0...200 Pa 0...500 Pa 0...1 kPa 0...2 kPa 0...5 kPa Other ranges on request. .
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 $R_L = 0 \text{ Ohm}$ 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:	0.77 kg



CE and UKCA conformity

AB Micatrone declare under sole responsibility that this product is in conformity with the essential requirements in the CE and UKCA directive at time of sale. The full text of Manufacturers declaration of conformity is available on Micatrones website.

Service

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

RELATED KEY PRODUCTS:

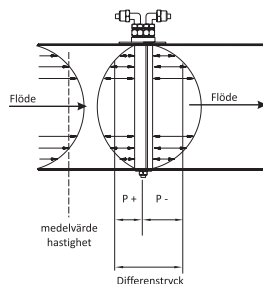
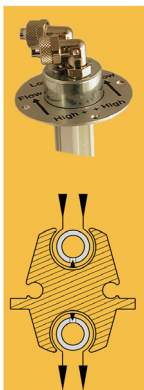
Flow measurement with Micaflex PFT:



Flow sensor MFS-SS (stainless steel):



Flow sensor MFS standard (aluminium):



Flow sensor MFS-FI for fan air inlet:



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