Micatrone®

MicaFlex

Transmitters and controllers for pressure, flow humidity and temperature
Laboratory ventilation

MicaFlex ver 3

New improved pressure- & flow transmitter with 4-digit display, improved accuracy, easy zero-setting and output signal in Volt or mA.

MF-P ver 3
Differential pressure transmitter with adjustable damping in four steps.

MF-PD ver 3
Differential pressure transmitter with display and adjustable damping in four steps.

MF-FD ver 3
Differential pressure transmitter with flow linearized display and output.
Easy flow display adjustment.
Adjustable damping in four steps.

MicaFlex II

Programmable digital pressure & flow transmitters/controllers/supervision and humidity & temperature transmitters.

The programmable serie is designed to meet very high demands for safety and accuracy.

Every unit is fully programmable from the outside of the front cover with the keypad.
The two line display with 16 characters on each line makes it easy to read and understand.

You can choose between several standard text menus for the display.

All units with built in pressure sensor are easy to zero set and recalibrate by the keypad.

General data:

Standard ranges:
-50...+50 Pa
0...100 Pa
0...200 Pa
0....500 Pa
0...1 kPa
0...2 kPa
0...5 kPa
(Other ranges are available on request)
Certificate of calibration included

Power:	24VAC/18...32VDC
Output:	0/2...10VDC
	0/4...20 mA

Accuracy:
< ± 0,5 % of pressure range

Transformer:
24, 115, 230 VAC
(not supported by all models)

Casing:
ABS-plastic IP 65

Accessories:

- Panel mounting kit
- Manifold valve
- DIN rail mounting kit
- Pressure connection kit VR-DR
- Transformer 24, 115, 230 VAC

MF-PFT
Differential pressure transmitter and controller

Programmable differential pressure transmitter with built in sensor for pressure and flow measurement and control.
One of the outputs could be used for controlling.

MF-PFA
Pressure- & flow supervision

Programmable differential pressure transmitter with built in sensor for measurement, control and supervision of pressure and flow in ”Clean room-” and similar applications.
Two outputs for voltage or mA.
One of the outputs could be used for controlling.
Two voltage free relay contacts (24 VAC, 5 Amp) for high/low-alarm.
Programmable time delay.
Acoustic alarm with reset functions.

MF-PFC
Controller

Programmable differential pressure controller with built in sensor for pressure and flow control. Two output terminals for volt or mA. One for actual value and one for control output. The controller mode is specially developed for pressure and flow control in different ventilation applications. SPC-input (0/2...10 VDC, 0/4...20 mA) for e.g. outdoor temperature compensation. Digital input for start, stop or change between two setpoints.

MF-PFCA
Controller with alarm

Programmable differential pressure controller with built in sensor for pressure and flow control. Two output terminals for volt or mA. One for actual value and one for control output. SPC-input (0/2...10 VDC, 0/4...20 mA).
Digital input for start, stop or change between two setpoints.
Two voltage free relay contacts (24 VAC, 5 Amp) for high/low alarm.
Programmable time delay.
Acoustic alarm with reset functions.

MF-PFTT
Pressure & Flow transmitter

Programmable differential pressure transmitter with built in pressure sensor and input for external temperature sensor for temperature compensated air flow measurement.

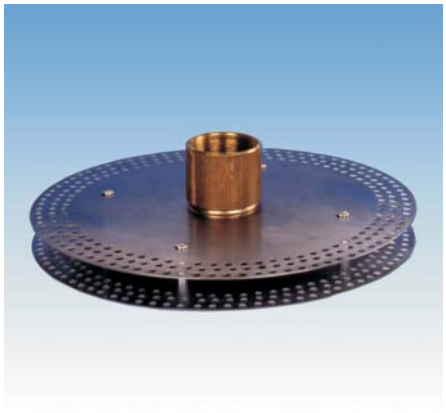
Control output signal for Micatrone Purging unit PU-2 for continuous cleaning of the flow sensors.

MF-HTC
Humidity Controller

Programmable humidity and temperature controller with one continuous PI-controller and one two-stage on/off controller.
Measures RH and temperature and includes a calculating program for dew point and mixing ratio (g/kg).
The analogue outputs selectable for optional parameter.

MF-HTT
Humidity- & temperature transmitter

Programmable humidity and temperature transmitter with room or duct mounted sensors. Two output terminals for voltage or mA.
Measures RH and temperature and includes a calculating program for dew point and mixing ratio (g/kg).
The analogue outputs selectable for optional parameter.

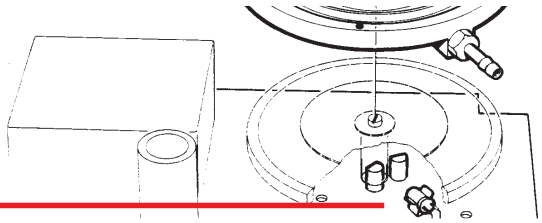


VM-6
Static pressure measuring probe

VM-6 is used to measure the static pressure outside a building.
In certain types of buildings, i.e. Shopping centres, warehouses and various Industrial plants, it is very difficult to find a suitable reference pressure inside the building. In this case the atmospheric pressure can be used as a reference.
For the reference pressure to be stable the air-probe must be insensitive to wind influence and located so as any static pressure interference around

Micatrone Infra-red Measuring system for reliable Pressure- & Flow measuring.

The measuring system consist of a diaphragm balanced between two springs. During pressure influence the diaphragm moves and the change of its position is measured with an IR optical device.



MFS

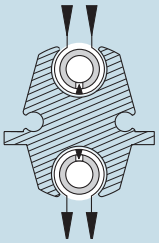
General:

Micatrone flow sensor MFS is developed to meet the great demand for accurate air flow measurement in all types of airhandling systems. MFS forms an average of the velocity profile of the complete channel area. MFS measures the total pressure (p+) as well as the amplified flow influenced pressure (p-). Together these both, p+ and p-, form a differential pressure from which the flow/velocity are possible to calculate.

MFS:

Self-Avaraging Flow Sensor.

The flow sensor consists of a solid bracket, which is made of extruded, anodised aluminium in which two measuring pipes follow the whole length. The measuring pipes are protected by the solid bracket. An air gap surrounding the measuring pipes gives the advantage with this construction to place the holes of the measuring pipes in a point where there is no velocity, which prevent particles from entering the pipes. The stable construction of MFS enables sensor lengths up to 2500 mm.



MFS-SS:

Self-Avaraging stainless steel Flow Sensor for the measurement of velocity or flow in air and other gases with the following benefits:

- Stainless steel construction
- For circular and rectangular ducts
- Available in lengths from 100 to 1000mm
- High precision measurement
- High differential pressure

New series of controllers, monitors & pressure switches for demanding applications in combustion plants and air treatment systems

Easily programmed

Large LED display for easy reading

Potential-free relay output

3 different pressure ranges

MTV-2000, pressure switch

Pressure switch designed to monitor positive, negative or differential pressure in combustion plants and air treatment systems.

MRP-2000, differential pressure controller

Differential pressure controller with two set points intended for controlling positive, negative or differential pressure on air and gases in combustion plants and air treatment systems. MRP-2000 has a 3-point control output: increase signal, no signal or decrease signal.

The new series also include:

MDT-2000, temperature controller for stage burners.

MI-4000, temperature monitor for flue-gas measuring.

MN-1000, speed monitor.

Micatrone®

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