Micatrone

Micaflex PFTT ver 3.
Pressure- and Flow transmitter with purging function for flow sensor

MF-PFTT
ver 3.x

APPLICATION

MF-PFTT is a microprocessor controlled transmitter/ controller for the measurement and control of differential pressure, flow or temperature.

With an external temperature sensor, the flow measurement can be compensated for variations in the temperature.
With an optional purging unit, PU3, the connected flow sensor can automatically be purged with set intervals.

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-PFTT 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-PFTT has two analogue output signals which can be used for pressure, flow, temperature 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.

ALARM

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

CERTIFICATE

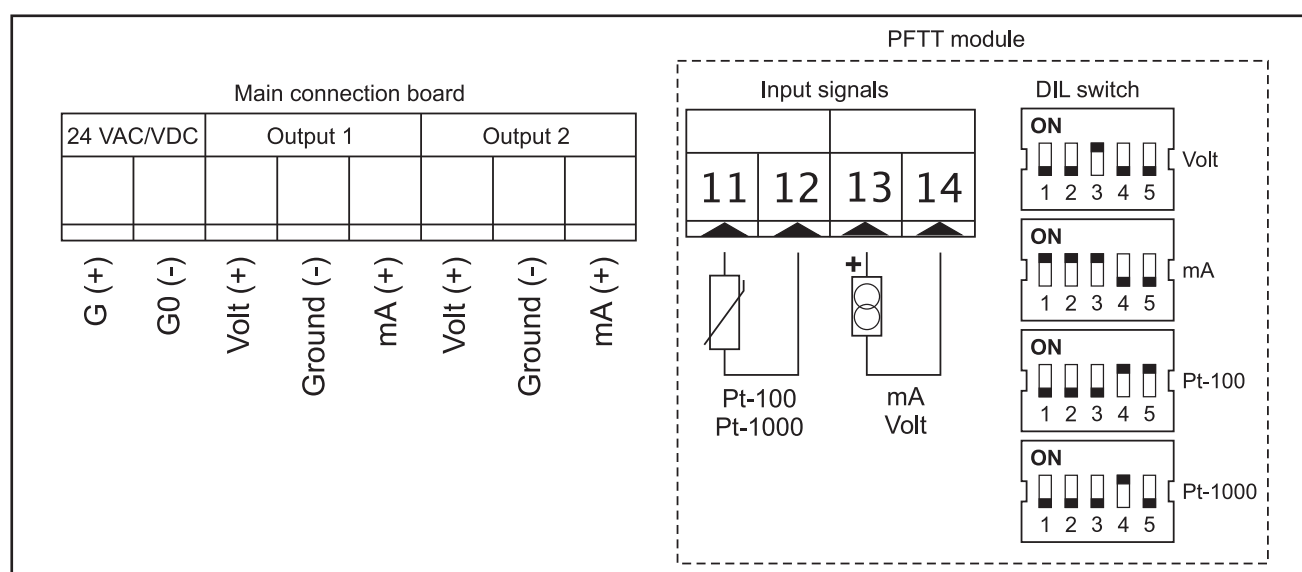Traceable certificate of calibration included.

ACCESSORIES:

❏ Purging unit MF-PU3

❏ 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 seperate 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
[standard] 0...100 Pa
0...200 Pa
0...500 Pa
0...1 kPa
0...2 kPa
0...5 kPa

Measurement error: < ± 0,5 % of the pressure
range ± 0,5 Pa

Temperature drift: < ± 0,5 % /10 °C

Damping: 0,0...9,9 sec.

Temp input: Sensor Pt-100, Pt-1000 and
0/2..10VDC or 0/4..20mA

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

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,
- Motherboard: 1 x 2,5 mm² / terminal
- PFTT module: 1 x 1,5 mm² / terminal

Cable entries: 4 pcs M16x1.5mm
(glands not included)

Dimensions: WxHxD = 122x120x90 mm

Weight: 0,86 kg

MAINTENANCE:
Check zero settings every 6:th. month.

EMC/LVD:
Applied EU directives:
- EMC SS-EN 61000-6-3:2007 + A1:2011
SS-EN 61000-6-2:2005 + C1:2005
- LVD SS-EN 61010-1:2010

Electrical connection: