

## Purging unit for Micaflex MF-PFTT

Datasheet: md-1320gb\_091014  
Replaces: rev 2008-06-25

## MF-PU-2

### Application

MicaFlex PU-2 is designed to be used with Micatrone transmitter type MicaFlex PFTT to prevent a connected flow sensor or pressure tap from clogging in applications where the measured air flow is polluted or an increased risk of condensation is present.

MF-PFTT control the purging units solenoid valves. The purging interval can be set between 30 and 3600 seconds and every purging period can be set between 0 and 99 seconds. During purging, the output signal from the transmitter is frozen to avoid interference in the measurement.

### Design

MicaFlex PU-2 consists of one relay and two solenoid valves that shifts the connection between the flow sensor or pressure tap to the transmitter or to the compressed air inlet. The relay is controlled using a 12 volt, 20mA, output signal from the transmitter.

### Function

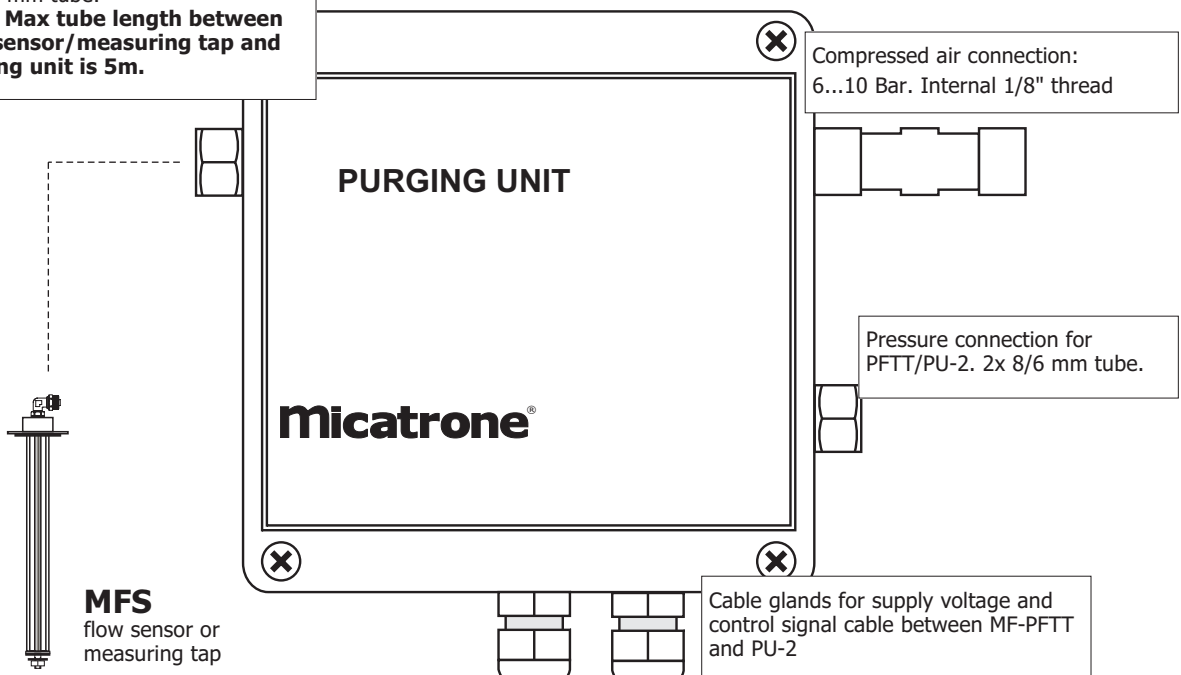
During the pause period, the flow sensor or pressure tap is connected to the MF-PFTT. During the purging period, two valves inside the unit close the connection to the MF-PFTT and opens the connection for the compressed air inlet to clean the flowsensor or pressure tap.



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Pressure connections MFS or tap.  
2x 8/6 mm tube.

**Note: Max tube length between flow sensor/measuring tap and purging unit is 5m.**



**MFS**  
flow sensor or  
measuring tap

Cable glands for supply voltage and  
control signal cable between MF-PFTT  
and PU-2

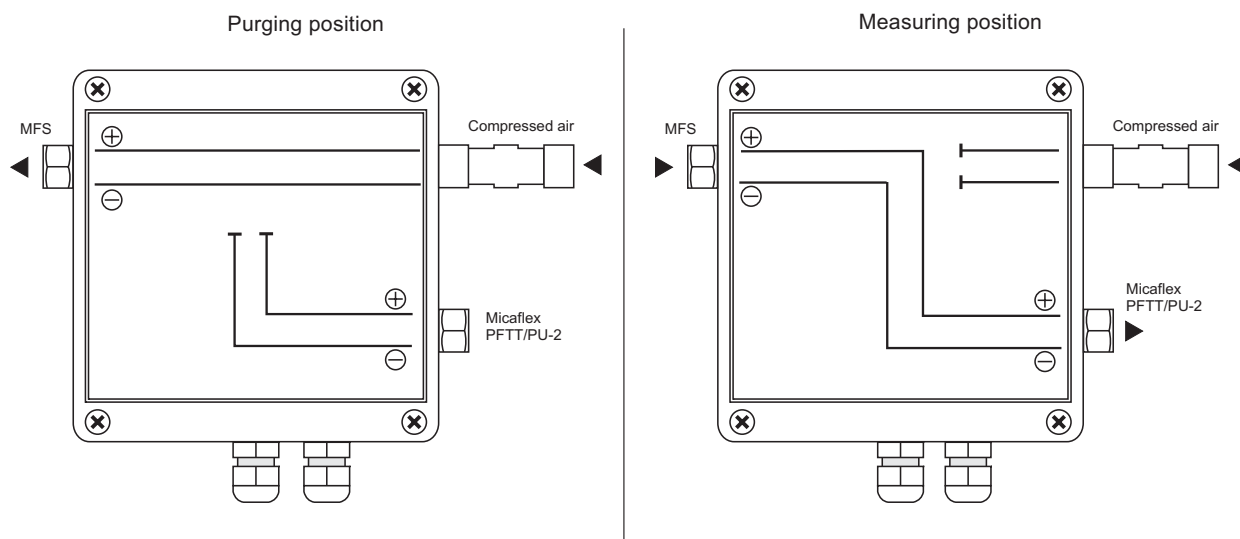
### Technical data

Solenoid valves: 2 pcs 24 VAC  
 Power consumption: 40 VA  
 Compressed air: 6...10 Bar  
 Connections for:  
 MF-PFTT/PU-2: G1/8" internal thread  
 MFS flow sensor: G1/8" internal thread  
 Compressed air: G1/8" internal thread  
 Pressure connections: Fittings for 8/6 mm tube or 6 mm Cu pipe is included, must be stated when ordering  
 Dimensions [WxHxD]: 120 x 122 x 90 mm (enclosure only)

### Warning:

Due to risk of a stored compressed air volume in tube between flow sensor and purging unit when valve shift from purging to normal operation, the length must not exceed 5 metre between flow sensor and purging unit to avoid overload in the transmitter.

### Valve function



### Electrical diagram MF-PFTT/PU-2

