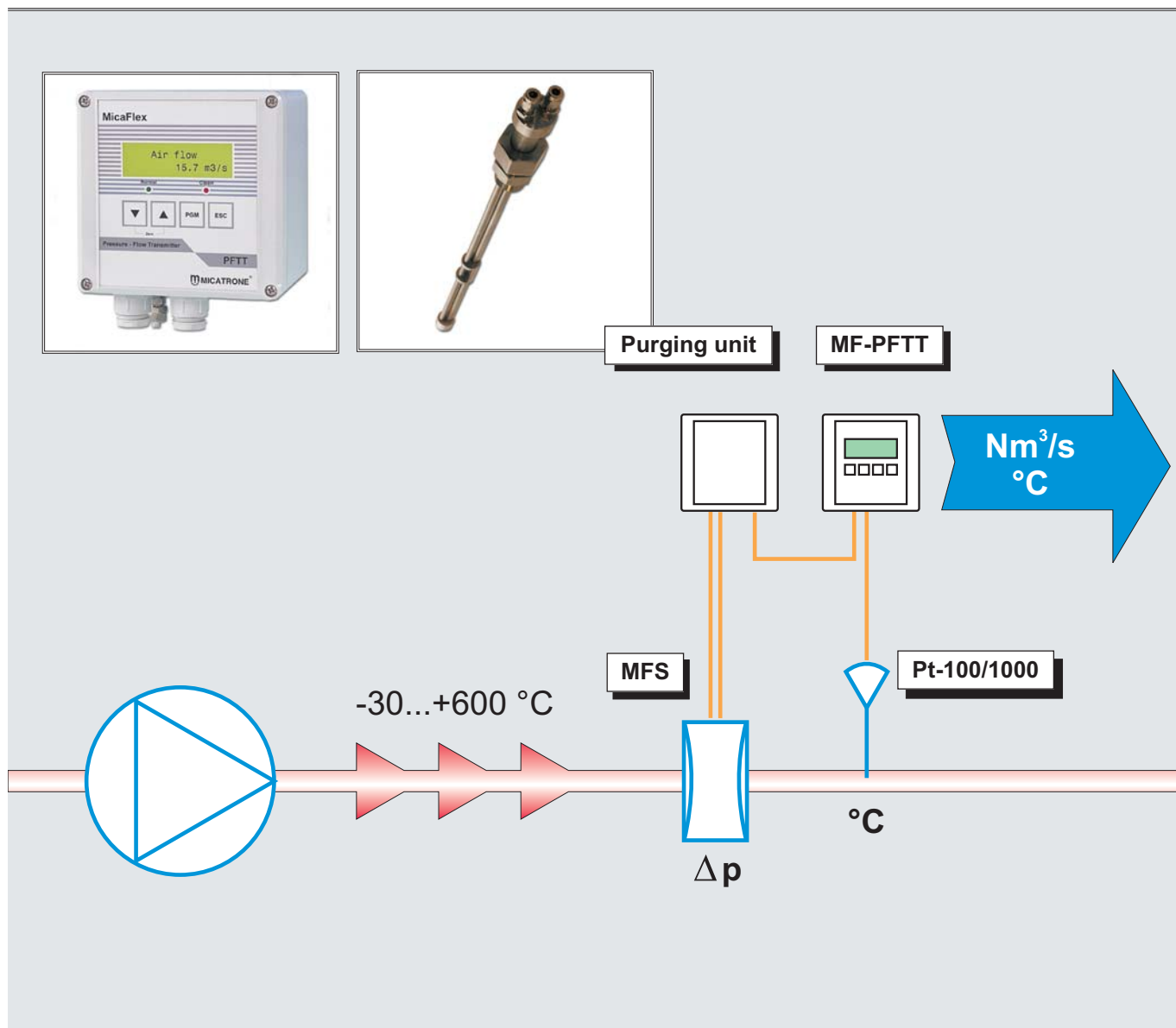


Industrial air flow measurement



MicaFlex

System components

Industrial air flow measurement and control

Micaflex PFTT is a pressure and flow transmitter designed for the measurement and control of air and gases with varying temperature.

Through a connected temperature sensor signal, which can be of active type, i.e. volt/mA or of passive type, Pt-100/Pt-1000, the flow is calculated for Normal flow at 0 °C. The temperature in the air can differ between -30...+600 °C with retained accuracy in measuring and control.

Suitable applications are combustion air in boiler plants with flue gas recycling, outdoor temperature compensation for fans and in cleaning processes etc.

Micaflex PFTT is to be connected to Micatrone flow sensor type MFS. Standard design in alumina (MFS) which are available for temperatures up to 400 °C or to Micatrone special flow sensors in stain-less steel (MFS-SS) for mounting in G $\frac{3}{4}$ " threaded pipe socket for aggressive gases and high temperatures up to 600 °C.

If the flow sensors are mounted in ducts where the air could contain particles that can cause the sensor to clogg, the MF-PFTT can control a purging unit, Micaflex PU-2. The purging unit is connected to compressed air with max pressure of 11 bar. The MF-PFTT controls the purging unit to clean the sensors in set intervals. During purging the actual value and control signals are frozen to avoid disturbance in the process. This function can also be used to clean pressure connections or pressure taps where clogging can occur.

Micaflex PFTT can be used as a combined pressure/flow and temperature instrument. The connected temperature signal can be scaled and converted to an analogue volt/mA output signal in the transmitter. The temperature input can also be used to move the set value of the pressure or flow control in the transmitter at outdoor temperature compensated control or in VAV flow control with a temperture span of only a few degrees °C.

The dual row LCD shows the current measuring values in clear writing. All programming can be performed using the integrated key pad accessible from the outside of the front cover.



Flow transmitter MicaFlex PFTT



Flow sensor MFS-SS / MFS (Std)



Temp. sensor Pt-100 / Pt-1000



Purging unit MicaFlex PU-2

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