



# **MASS-STREAM™ D-6200 and D-5100**

## **Thermal Mass Flow Meters (MFM) and Mass Flow Controllers (MFC)**

### **Technical Specifications**



# Technical Specifications

## Measurement System

- Accuracy (based on air calibration)  $\pm 3\%$  FS including non-linearity (better accuracy on request)
- Repeatability  $\pm 0.5\%$  FS
- Time constant sensor (63.2%)  $\tau \leq 2$  sec
- Pressure sensitivity  $\pm 0.3\%$  / bar typical (air)
- Temperature sensitivity  $\pm 0.3\%$  / °C (air)
- Leak rate  $< 2 \times 10^{-7}$  mbar l/s He
- RFI (Radio Frequency Interference) according to CE

Technical changes and alterations in construction are reserved.



# Technical Specifications

## Operating Limits

- Range (Turn-down-ratio) 5 ... 100% (1 : 20)
- Type of gases all gases compatible with materials chosen
- Temperature 0 ... 50 °C
- Pressure rating max. 10 bar (g) (higher on request)
- Warm up time within 30 min for optimum accuracy;  
within 30 sec for accuracy  $\pm 4\%$  FS

## Mechanical Parts

- Sensor AISI 316L
- Body AISI 316L or anodised Aluminium
- Sieves / Support rings Stainless steel / teflon
- Protection IP40

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## Electrical Properties

- Supply voltage  
digital MFM / MFC only: 15 Vdc  $\pm$  10% or 24 Vdc  $\pm$  10%  
15 ... 24 Vdc  $\pm$  10%
- Current peak values  
D-51xx 75 mA max  
D-62xx Inrush current 250 mA max.  
No flow 75 mA max.  
100% flow 175 mA max.
- Control valve Add 250 mA max.
- Output signal  
digital MFM / MFC only: 0 ... 5 Vdc or 4 ... 20 mA active  
0 ... 10 Vdc or 0 ... 20 mA active
- Connector  
analogue MFM / MFC only: 6-pin round DIN  
digital MFM / MFC only: 8-pin round DIN

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