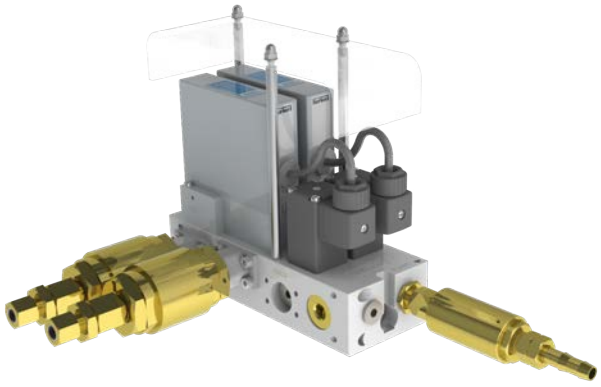
THERMAL PROCESSING
MDE-MFC

www.wittgas.com

For the supply of a burner or other processes with gas mixtures of 2 or more gases. For the glass industry, thermal and other applications where gas mixing is required.

Benefits

- very fast setting time to compensate variations or changing of setpoint
  - measurement directly in the gas flow
  - using new CMOS sensor-technology
- reliable repeatability of process parameters to reduce rejects during start-up
- long-term stability due to compensation of external factors, like pressure, temperature and burner changes etc.
- integrated WITT gas safety equipment prevents dangerous flashbacks
- remote control by PLC, PC or WITT control units AWS or GC50
- min. start-up times when changing product by using specific flow parameters stored for each product
- adjustable flame parameters without stopping of production
- quality and cost control by recording of single gas flows
- easy integration into modern control systems via optional profibus interface



- auto-calibration for quicker and more accurate flow control
- simple assembly of MFCs with all necessary components to form ready to use gas mixing systems resulting in substantially reduced construction expenses and smaller space requirements

Type	MDE-MFC gas mixer with analogue and RS-232 Interfaces
Gases	neutral, non-toxic gases, others on request
Gas inlet pressures	max. 3 barg
Gas outlet pressures	min. 0.5 bar less than the inlet pressure
Temperatures (gas/environment)	-10 °C to +50 °C (14 °F to 122 °F)
Flow capacity	according to gas type e.g. max. 100 Nl/min H_2, max. 80 Nl/min O_2, N_2, Air or Methane
Setting time (t 95%)	< 300 ms
Measuring range	1 : 50
Accuracy	±1% of current value plus ±0.5% of full scale

Linearity	±1% of full scale
Repeatability	±0.5% of full scale
Material	aluminium
Dimensions (HxWxD)	approx. 210 x 350 x 250 mm (8.27 x 13.78 x 9.84 inch) for a 2 gas mixer
Voltage	+24 V DC ±10%, ripple < 5%
Power consumption	max. 400 mA
Actual value / Set point	0-10 V, 0-5 V RS 232
Interfaces	potential free contact 60 V 1A, Sub-D-female 15 pins
Installation	any position
Approvals	Company certified according to ISO 9001 CE-marked according to: - EMC 2004/108/EC - Low Voltage Directive 2006/95/EC