

THERMAL PROCESSING

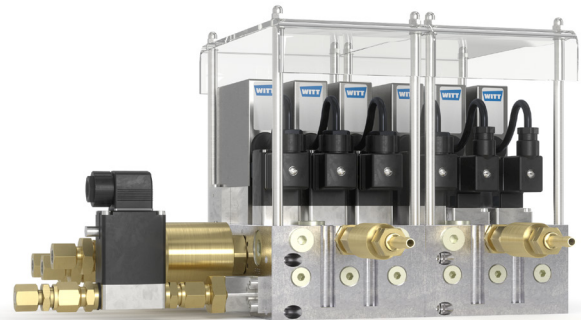
MDE-MFC



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	Linearity	±1% of full scale
Gases	neutral, non-toxic gases, others on request	Repeatability	±0.5% of full scale
Gas inlet pressures	max. 3 barg	Material	aluminium
Gas outlet pressures	min. 0.5 bar less than the inlet pressure	Dimensions (HxWxD)	approx. 230 x 385 x 385 mm (9.06 x 15.16 x 15.16 inches) for a 3 gas mixer
Temperatures (gas/environment)	-10 °C to +50 °C (14 °F to 122 °F)	Voltage	+24 V DC ±10%, ripple < 5%
Flow capacity	according to gas type e.g. max. 100 NI/min H ₂ , max. 80 NI/min O ₂ , N ₂ , Air or Methane	Power consumption	max. 400 mA
Setting time (t 95%)	< 300 ms	Actual value / Set point	0-10 V, 0-5 V RS 232
Measuring range	1 : 50	Interfaces	potential free contact 60 V 1A, Sub-D-female 15 pins
Accuracy	±1% of current value plus ±0.5% of full scale	Installation	any position
		Approvals	Company certified according to ISO 9001 CE-marked according to: - EMC 2014/30/EU - Low Voltage Directive 2014/35/EU