

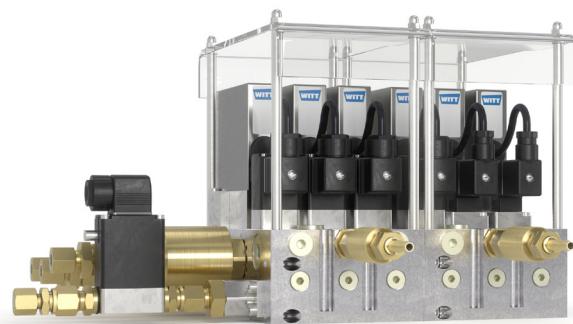
# THERMAL PROCESSING

## 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

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