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

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 H₂,
max. 80 Nl/min O₂, N₂, 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 2014/30/EU
- Low Voltage Directive 2014/35/EU