GAS MIXER MG 200-ME

Gas mixing systems for 2 or 3 defined gases, designed for a variety of industrial applications with high flows and fluctuating gas mixture production requirements.

Capacity range from 0 to approx. 284 Nm³/h. For the exact pressure and flow capacity ratios, please see the technical data overleaf.

Note:
System only works with sufficient buffer volume (to 500 litres depending on gas mixing capacity).

Easy operation
- a proportional mixing valve (-2ME) or three single mixing valves (-3ME), each with a control knob and %-scale, provide infinitely variable mixture settings
- gas mixture withdrawal possible from zero to the maximum flow capacity

High process reliability
- independent of pressure fluctuations in the gas supply
- intermittent gas mixture withdrawal possible
- lockable transparent door for protection of settings

Options
- for flammable gases available as Ex-version with separate control cabinet
- alarm module NXT+: integrated inlet pressure monitoring with digital display for pressure (with analog pressure transmitters) plus optical alarm, adjustable alarm limits, obligation of acknowledgement, protection of alarms, interfaces for controlling external alarms etc.
- integrated gas analysis for the monitoring/control and documentation of the gas mixture production

Other models, options and accessories available on request.

Please identify the individual gases at the time of enquiring!
GAS MIXER MG 200-ME

Type
MG 200-2ME /-3ME; MG 200-2ME /-3ME Ex

Gases
all technical gases (excluding toxic and corrosive gases also mixtures of fuel gas with air, O₂ or N₂O)

Mixing range
0–25% or 0–100% 
by selection of suitable mixing range the accuracy corresponds to ISO 14175

Pressure settings 
see table

Inlet pressure differential between the gases 
max. 3 bar

Mixture output (air) 
see table

Setting accuracy
±1% abs. (scale 0–25%), ±2% abs. (scale 0–100%)

Mixing precision
better than ±1% abs.

Gas connections

<table>
<thead>
<tr>
<th>Inlet 0–25%</th>
<th>Inlet 0–100%</th>
<th>Outlet at mixer</th>
</tr>
</thead>
<tbody>
<tr>
<td>G 3/4 RH with cone, soldering nipple for pipe OD 15 mm</td>
<td>G 1 RH with O-ring seal, soldering nipple for pipe OD 22 mm</td>
<td>G 1 RH with O-ring seal, soldering nipple for pipe OD 22 mm</td>
</tr>
</tbody>
</table>

 versions

<table>
<thead>
<tr>
<th>-2ME</th>
<th>-2ME Ex</th>
<th>with analyser / -3ME</th>
</tr>
</thead>
<tbody>
<tr>
<td>- monitoring of gas supply (PvDü)</td>
<td>- monitoring of gas supply with triggering solenoid valve in the outlet (GB)</td>
<td>- customised other functions</td>
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</tbody>
</table>

Housing
small, stainless steel, IP54 
medium, stainless steel, IP54 
big, painted steel IP43

Weight
approx. 40 kg 
approx. 45 kg 
approx. 80 kg (-2ME), approx. 110 kg (-3ME)

Dimensions (HxWxD) [mm]
mixer (without connections)
approx. 330 x 485 x 500 
approx. 510 x 485 x 500 
approx. 1220 x 600 x 515

control cabinet (Ex) (without connections) 
approx. 212 x 198 x 160 
approx. 280 x 302 x 170 
approx. 436 x 600 x 275 
approx. 656 x 600 x 275 
approx. 816 x 600 x 275

Voltage
230 V AC, 110 V AC or 24 V DC

Power consumption
230 V AC, 0.07 A

Approvals
Company certified according to ISO 9001 
CE-marked according to: 
- EMC 2014/30/EU 
- Low Voltage Directive 2014/35/EU 
- PED 2014/68/EU 
- ATEX 114 Directive 2014/34/EU

Flow MG 200 (in Nm³/h) in relation to air 

<table>
<thead>
<tr>
<th>min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)</th>
<th>1.5</th>
<th>2.5</th>
<th>3.5</th>
<th>4.5</th>
<th>5.5</th>
<th>6.5</th>
<th>7.5</th>
<th>8.5</th>
<th>9.5</th>
<th>10.5</th>
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