Electronic gas mixing system with motor driven mixing valve for various technical applications. A further innovation founded on the basis of the well proven WITT-mixing valve technology.

Benefits

- fast mixing adjustment < 3 sec. by simultaneous adjustment of mixing valves
- control by PC, PLC of machine, etc.
  - remote control
  - easy documentation of parameter settings to meet quality management requirements
  - only one control unit for an infinite number of mixing systems
  - monitoring of parameters and valve positions possible at any time
  - current position is readable on display

Note: Features depend on the type of the control system used.

- mixture settings in steps of 0.1%
- high mixing accuracy
- simple to operate via touch-screen (after activation)
- gas mixers can be linked to PC or PLC (e.g. CAN-Bus option)
- due to the real zero flow it is possible at mixers with 3 gas mixtures to mix 2 gas mixtures
- independent of pressure fluctuations in the gas supply
- independent of packaging speeds and sizes of packages (packaging industry)
- integrated monitoring of gas supply for higher process safety. Low pressures trigger an alarm and a potential free contact (e.g. to shut down machinery and avoid quality problems)
- perfect hygiene due to splash-proof housing with smooth, easy to clean surfaces of brushed stainless steel
- inlet pressure failures are displayed

Options

- continual monitoring and documentation of gas mixtures by optional gas analyser
- pre-assembly of mixer on receiver for easier on-site installation
- audible alarm
- visual alarm (flash light)

Attention: These mixers require a receiver with sufficient volume (according to output from 10 to 100 Litre)

Please identify the individual gases at the time of enquiring!
### GAS MIXER KM 100-MEM+

**Type**  
KM 100-2MEM+ /-3MEM+

**Gases**  
N₂, CO₂, O₂  
not for flammable gases!

**Mixing range**  
0 – 100%

**Gas inlet pressures**  
max. 20 bar

**Gas outlet pressure**  
max. 10 bar

**Inlet pressure differential between the gases**  
max. 3 bar

**Mixture output (air)**  
see table

**Setting accuracy**  
±0.1% abs.

**Mixing precision**  
better than ±1% abs.

**Gas connections**  

<table>
<thead>
<tr>
<th>Inlets</th>
<th>Outlet</th>
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<tbody>
<tr>
<td>G 1/2 with cone</td>
<td>G 1/2 with cone</td>
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**Interfaces**  
selectable see table

<table>
<thead>
<tr>
<th>digital</th>
<th>analog</th>
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<tbody>
<tr>
<td>RS232</td>
<td>4-20 mA</td>
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**Display**  
240 x 128 pixels for display and adjustment (option) of the nominal position

**Housing**  
stainless steel, splash proof

**Weight**  
approx. 22 kg

**Dimensions (HxWxD)**  
approx. 226 x 325 x 400 mm (8.90 x 12.80 x 15.75 inches)

**Voltage**  
24 V DC (optional 230 V AC, 110 V AC)

**Power consumption**  
max. 2 A

**Approvals**  
Company certified according to ISO 9001 and ISO 22000  
CE-marked according to:  
- EMC 2014/30/EU  
- Low Voltage Directive 2014/35/EU  
- PED 2014/68/EU  
for food-grade gases according to:  
Cleaned for Oxygen Service according to:  
- EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems

### Flow (in Nl/min) 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>
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