



**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
- 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+



<b>Type</b>	KM 100-2MEM+ /-3MEM+
<b>Gases</b>	N <sub>2</sub> , CO <sub>2</sub> , O <sub>2</sub> not for flammable gases!
<b>Mixing range</b>	0 – 100%
<b>Gas inlet pressures</b>	max. 20 bar
<b>Gas outlet pressure</b>	max. 10 bar
<b>Inlet pressure differential between the gases</b>	max. 3 bar
<b>Mixture output (air)</b>	see table
<b>Setting accuracy</b>	±0.1% abs.
<b>Mixing precision</b>	better than ±1% abs.
<b>Gas connections</b>	
<b>Inlets</b>	G 1/2 with cone
<b>Outlet</b>	G 1/2 with cone
<b>Interfaces</b>	selectable see table

Analogue	4-20 mA or 0-10 V
Ethernet	yes
CanBus	yes
OPC UA	yes
Module box RS232	optional
Module box Profinet	optional

<b>Display</b>	240 x 128 pixels for display and adjustment (option) of the nominal position
<b>Housing</b>	stainless steel, splash proof
<b>Weight</b>	approx. 22 kg
<b>Dimensions (HxWxD)</b>	approx. 226 x 325 x 400 mm (8.90 x 12.80 x 15.75 inches)
<b>Voltage</b>	24 V DC (optional 230 V AC, 110 V AC)
<b>Power consumption</b>	max. 2 A
<b>Approvals</b>	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: - Regulation (EC) No 1935/2004  Designed for Oxygen Service in accordance with EIGA 13/20 and CGA G-4.4: Oxygen Pipeline and Piping Systems  Cleaned for Oxygen Service in accordance with EIGA 33/18 and CGA G-4.1: Cleaning of Equipment for Oxygen Service

Flow (in NI/min) in relation to air		min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)									
		1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5
min. inlet pressure in barg (max. 20 bar)	4	162	–	–	–	–	–	–	–	–	–
	5	209	191	–	–	–	–	–	–	–	–
	6	251	247	217	–	–	–	–	–	–	–
	7	293	293	280	240	–	–	–	–	–	–
	8	335	355	332	310	261	–	–	–	–	–
	9	376	376	376	367	337	280	–	–	–	–
	10	418	418	418	416	399	362	298	–	–	–
	11	460	460	460	460	452	428	385	315	–	–
	12	502	502	502	502	500	486	456	407	332	–
	13	544	544	544	544	544	537	517	482	428	347