

# KM 100-2MEM+, KM 100-3MEM+



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

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

## 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)

**The individual gases must be identified at the time of enquiring!**

Technical DataOverleaf



# KM 100-2MEM+, KM 100-3MEM+

Technical Data			
Type	KM 100-2MEM+ /-3MEM+		
Gases	N <sub>2</sub> , CO <sub>2</sub> , O <sub>2</sub> 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	Inlets: G ½ with cone Outlet: G ½ with cone		
Interfaces	selectable, see table		
		digital	analog
		RS232	4-20 mA      0-10 V
	Touchscreen activation	option	-      -
	Converter for USB	upon request	-      -
	Converter for Ethernet	upon request	-      -
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: - Regulation (EC) No 1935/2004 Cleaned for Oxygen Service according to: - EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems		

**Flow (in NI/min) in relation to air**  
**min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)**

min. inlet pressure in barg (max. 20 bar)	Flow (in NI/min) in relation to air									
	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5
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

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EN ISO  
9001:2008  
certified  
since 1994