



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	N ₂ , CO ₂ , O ₂ 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 1/2 with cone
Outlet	G 1/2 with cone
Interfaces	selectable see table

	digital	analog	
	RS232	4-20 mA	0-10 V
option		–	–
upon request		–	–
upon request		–	–

Touchscreen activation

Converter for USB

Converter for ethernet

Display

Housing

Weight

Dimensions (HxWxD)

Voltage

Power consumption

Approvals

240 x 128 pixels for display and adjustment (option) of the nominal position

stainless steel, splash proof

approx. 22 kg

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

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

max. 2 A

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)											
	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