GAS MIXER KM 100-MEM+

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

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

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 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 Nl/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**
	4	162	–	–	–	–	–	–	–	–	–
	5	209	191	–	–	–	–	–	–	–	–
	6	251	247	217	–	–	–	–	–	–	–
min. inlet pressure in barg (max. 20 bar)	**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