



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. 290 PSI
Gas outlet pressure	max. 145 PSI
Inlet pressure differential between the gases	max. 43.5 PSI
Mixture output (air)	see table
Setting accuracy	±0.1% abs.
Mixing precision	better than ±1% abs.
Gas connections	
Inlets	1/2" NPT with cone
Outlet	1/2" NPT 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 or display and adjustment (option) of the nominal position
Housing	stainless steel, splash proof
Weight	approx. 49 lb
Dimensions (HxWxD)	approx. 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 SCFH) in relation to air		min. receiver pressure in PSIG (max. receiver pressure 7 PSI higher)									
		22	36	51	65	80	94	109	123	138	152
min. inlet pressure in PSIG (max. 290 PSI)	58	343	–	–	–	–	–	–	–	–	–
	73	443	405	–	–	–	–	–	–	–	–
	87	532	523	460	–	–	–	–	–	–	–
	102	621	621	593	509	–	–	–	–	–	–
	116	710	752	703	657	553	–	–	–	–	–
	131	797	797	797	778	714	593	–	–	–	–
	145	886	886	886	881	845	767	631	–	–	–
	160	975	975	975	975	958	907	816	667	–	–
	174	1 064	1 064	1 064	1 064	1 059	1 030	966	862	703	–
	189	1 153	1 153	1 153	1 153	1 153	1 138	1 095	1 021	907	735

KM8 USA - 102/4C subject to change