



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	all technical gases (excluding toxic and corrosive gases also mixtures of fuel gas with air, O ₂ or N ₂ O)
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	RS 232, analog output 4-20 mA
Display	240 x 128 pixels for display and operation 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 Cleaned for Oxygen Service according to: - EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems

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	
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	1064	1064	1064	1064	1059	1030	966	862	703	-	-
189	1153	1153	1153	1153	1153	1138	1095	1021	907	735	-

KM8 USA - E01/E6 subject to change