

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



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Technical Data		
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. 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	
	analog	4-20 mA
	Ethernet	yes
	CanBus	yes
	OPC UA	yes
	Module box RS232	optional
	Module box profinet	optional
	Module box analog 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 Cleaned for Oxygen Service according to: - EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems	

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min. inlet pressure in barg (max. 20 bar)	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	-	-	-	-	-	-	-
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