



**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 100 to 250 Litre)

**Please identify the individual gases at the time of enquiring!**

# GAS MIXER MG 50-MEM+



<b>Type</b>	MG 50-2MEM+ /-3MEM+
<b>Gases</b>	N <sub>2</sub> , CO <sub>2</sub> , O <sub>2</sub> not for flammable gases!
<b>Mixing range</b>	0 – 100%
<b>Gas inlet pressures</b>	max. 290 PSI
<b>Gas outlet pressure</b>	max. 145 PSI
<b>Inlet pressure differential between the gases</b>	max. 43.5 PSI
<b>Mixture output (air)</b>	see table
<b>Setting accuracy</b>	±0.1% abs.
<b>Mixing precision</b>	better than ±1% abs.
<b>Gas connections</b>	
<b>Inlets</b>	1/2" NPT with cone
<b>Outlet</b>	1/2" NPT with cone
<b>Interfaces</b>	selectable see table

	digital	analog	
	RS232	4-20 mA	0-10 V
<b>Touchscreen activation</b>	option	–	–
<b>Converter for USB</b>	upon request	–	–
<b>Converter for ethernet</b>	upon request	–	–

<b>Display</b>	240 x 128 pixels or display and adjustment (option) of the nominal position
<b>Housing</b>	stainless steel, splash proof
<b>Weight</b>	approx. 46 lb
<b>Dimensions (HxWxD)</b>	approx. 8.90 x 12.80 x 15.75 inches
<b>Voltage</b>	24 V DC (optional 230 V AC, 110 V AC)
<b>Power consumption</b>	max. 2 A
<b>Approvals</b>	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
min. inlet pressure in PSIG (max. 290 PSI)	58	742	-	-	-	-	-	-	-	-	-
	73	953	848	-	-	-	-	-	-	-	-
	87	1130	1130	989	-	-	-	-	-	-	-
	102	1307	1307	1271	1095	-	-	-	-	-	-
	116	1519	1519	1519	1413	1165	-	-	-	-	-
	131	1695	1695	1695	1660	1519	1271	-	-	-	-
	145	1907	1907	1907	1872	1801	1624	1342	-	-	-
	160	2084	2084	2084	2084	2048	1942	1730	1413	-	-
	174	2295	2295	2295	2295	2260	2190	2084	1836	1483	-
	189	2472	2472	2472	2472	2472	2437	2366	2190	1942	1554

MG7 USA - B01/18 subject to change