



**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+



**Type** MG 50-2MEM+ /-3MEM+  
**Gases** N<sub>2</sub>, CO<sub>2</sub>, O<sub>2</sub>  
 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. 46 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
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