



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 N₂, CO₂, O₂
 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