



Picture with mixer in housing B

MG 500-2ME ERC

## Gas mixing systems for 2 defined gases, designed for a variety of industrial applications with high flows and fluctuating gas mixture production requirements.

Capacity range from 0 to approx. 1264 Nm<sup>3</sup>/h.  
For the exact pressure and flow capacity ratios, please see the technical data overleaf.

### Note:

System only works with sufficient buffer volume (1500 to 2000 litres depending on gas mixing capacity).

### Easy operation

- an electro-pneumatic proportional mixing valve provides infinitely variable mixture settings
  - with control unit GC50 (local)
  - via Ethernet or analogue input (remotely adjustable)
- user friendly input of data and process parameter by integrated keyboard or via PC (for example MS-Excel®)
- simple, intuitive operation; no qualified personnel necessary
- customer oriented quality documentation by easy data management and evaluation
- gas mixture withdrawal possible from zero to the maximum flow capacity

### High process reliability

- too low inlet pressures and/or temperature triggers an audible/visual alarm and shuts down the mixed gas supply
- lockable transparent door for protection of settings
- independent of pressure fluctuations in the gas supply
- intermittent gas mixture withdrawal possible

### Options

- for flammable gases available as Ex-version with separate control cabinet
- monitoring of the gas supply by means of pressure and/or temperature transmitter; too low an inlet pressure and/or temperature triggers a visual alarm (audible optional) and switches a potential free contact (e.g. to shut down machinery to avoid quality problems)
- integrated gas analysis for the monitoring/control and documentation of the gas mixture production
- with heater for mixer and control system
- with separate filter in the inlet

**Other models, options and accessories available on request.**

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

# GAS MIXER MG 500/1000-ME ERC



<b>Type</b>	MG 500/1000-2ME ERC	
<b>Gases</b>	all technical gases (excluding toxic and corrosive gases also mixtures of fuel gas with air, O <sub>2</sub> or N <sub>2</sub> O)	
<b>Mixing range</b>	0–95%, 0–25%, (0–10%, 0–5% on request) by selection of suitable mixing range the accuracy corresponds to ISO 14175	
<b>Pressure settings</b>	see table System requires a pneumatic pressure at least 7 bar!	
<b>Inlet pressure differential between the gases</b>	max. 3 bar	
<b>Mixture output (air)</b>	see table	
<b>Temperature (gas/environment)</b>	0 °C to 45 °C (32 °F to 113 °F)	
<b>Setting accuracy</b>	±0.5% abs. (valve 0–5% and 0-10%), ±1% abs. (valve 0–25%), ±2% abs. (valve 0–95%)	
<b>Mixing precision</b>	better than ±0.5% abs.	
<b>Gas connections</b> (according to gases and mixture)	<b>inlet</b>	<b>outlet</b>
<b>MG 500</b>	flange DN50 / PN40 soldering nipple OD 54 soldering nipple OD 35 soldering nipple OD 22	flange DN50 / PN40 soldering nipple OD 54 soldering nipple OD 42
<b>MG 1000</b>	flange DN80 / PN40 flange DN50 / PN40 soldering nipple OD 54 soldering nipple OD 35 soldering nipple OD 22	flange DN80 / PN40 flange DN50 / PN40 soldering nipple OD 54
<b>Alarm signals</b>	Please order separately filter at the inlet. Only pipe installation possible! one min. / max. threshold value with 2 floating contacts	
<b>Logging</b>	analog output 4-20 mA or 0-10 V	
<b>Interfaces</b>	RS 232 with ASCII-output of date, time, measured value Ethernet (option WLAN) analog output 4-20 mA or 0-10 V	
<b>Housing</b>	painted steel	
<b>Weight</b>	according to equipment and housing approx. 170 kg – approx. 330 kg	
<b>Dimensions (HxWxD)</b>		
<b>Housing A</b>	approx. 1205 x 600 x 620 mm (47.44 x 23.62 x 24.41 inch) without connections, at right side and on top	
<b>Housing B</b>	approx. 1520 x 1200 x 580 mm (59.84 x 47.24 x 22.83 inch) without connections, at left side	
<b>separate control cabinet (Ex)</b>	approx. 380 x 600 x 210 mm (14.96 x 23.62 x 8.27 inch) without connections	
<b>Voltage</b>	230 V AC, 110 V AC or 24 V DC	
<b>Power consumption</b>	230 V AC, 1.545 A	
<b>Approvals</b>	Company certified according to ISO 9001 CE-marked according to: - EMC 2014/30/EU - Low Voltage Directive 2014/35/EU - PED 2014/68/EU - ATEX 114 Directive 2014/34/EU	

		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
min. inlet pres- sure in barg (max. 14 / 20 bar)	4	215	-	-	-	-	-	-	-
	5	277	254	-	-	-	-	-	-
	6	333	328	288	-	-	-	-	-
	7	388	388	372	318	-	-	-	-
	8	444	444	440	411	346	-	-	-
	9	499	499	494	487	447	372	-	-
	10	555	555	555	552	529	480	396	-
	11	610	610	610	610	600	568	511	418

		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
min. inlet pres- sure in barg (max. 14 / 20 bar)	4	445	-	-	-	-	-	-	-
	5	575	527	-	-	-	-	-	-
	6	690	680	597	-	-	-	-	-
	7	805	805	771	660	-	-	-	-
	8	920	920	912	852	717	-	-	-
	9	1035	1035	1035	1009	926	771	-	-
	10	1150	1150	1150	1144	1096	995	820	-
	11	1264	1264	1264	1264	1243	1177	1059	867

MG5 - F01/K8 subject to change