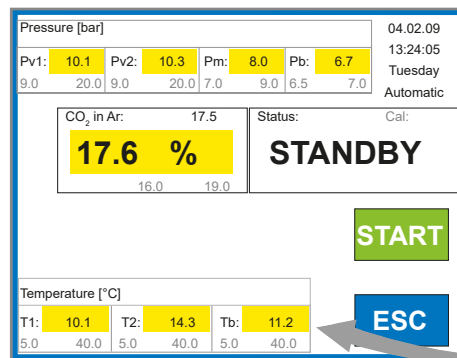


GAS MIXER MG 500/1000-ME ERC+



Picture with mixer in housing A (left) and housing B (right)

MG 500-2ME ERC+ with analyser

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 Nm³/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+



Type	MG 500/1000-2ME ERC+		
Gases	all technical gases (excluding toxic and corrosive gases also mixtures of fuel gas with air, O ₂ or N ₂ O)		
Mixing range	0–95%, 0–25%, (0–10%, 0–5% on request) by selection of suitable mixing range the accuracy corresponds to ISO 14175		
Pressure settings	see table		
Inlet pressure differential between the gases	max. 3 bar		
Mixture output (air)	see table		
Temperature (gas/environment)	0 °C to 45 °C (32 °F to 113 °F)		
Setting accuracy	±0.5% abs. (valve 0–5% and 0–10%), ±1% abs. (valve 0–25%), ±2% abs. (valve 0–95%)		
Mixing precision	better than ±0.5% abs.		
Gas connections	inlet		outlet
(according to gases and mixing range)			
MG 500	flange DN50 / PN40 (carrier gas)		flange DN50 / PN40
	soldering nipple OD 54		soldering nipple OD 54
	soldering nipple OD 35 (admix gas)		soldering nipple OD 42
	soldering nipple OD 22		
MG 1000	flange DN80 / PN40 (carrier gas)		flange DN80 / PN40
	flange DN50 / PN40		flange DN50 / PN40
	soldering nipple OD 54 (admix gas)		soldering nipple OD 54
	soldering nipple OD 35		
	soldering nipple OD 22		
	Please order separately filter at the inlet. Only pipe installation possible!		
Alarm signals	one min. / max. threshold value with 2 floating contacts		
Logging	analog output 4-20 mA or 0-10 V		
Interfaces	RS 232 with ASCII-output of date, time, measured value Ethernet (option WLAN) analog output 4-20 mA or 0-10 V		
Housing	painted steel		
Weight	according to equipment and housing approx. 170 kg – approx. 330 kg		
Dimensions (HxWxD)			
Housing A	approx. 1 205 x 600 x 620 mm (47.44 x 23.62 x 24.41 inches) without connections, at right side and on top		
Housing B	approx. 1 520 x 1 200 x 580 mm (59.84 x 47.24 x 22.83 inches) without connections, at left side		
separate control cabinet (Ex)	approx. 380 x 600 x 210 mm (14.96 x 23.62 x 8.27 inches) without connections		
Voltage	230 V AC, 110 V AC or 24 V DC		
Power consumption	230 V AC, 1.545 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 - ATEX 114 Directive 2014/34/EU for food-grade gases according to: - Regulation (EC) No 1935/2004		

Flow MG 500 (in Nm ³ /h) 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	
min.	4	215	-	-	-	-	-	-	
inlet pres-	5	277	254	-	-	-	-	-	
sure in barg	6	333	328	288	-	-	-	-	
(max.	7	388	388	372	318	-	-	-	
14 / 20 bar)	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

Flow MG 1000 (in Nm ³ /h) 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	
min.	4	445	-	-	-	-	-	-	
inlet pres-	5	575	527	-	-	-	-	-	
sure in barg	6	690	680	597	-	-	-	-	
(max.	7	805	805	771	660	-	-	-	
14 / 20 bar)	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