GAS MIXER MG 2000-ME ERC+

www.wittgas.com

MG 2000-2ME 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. 2 180 Nm³/h.
For the exact pressure and flow capacity ratios, please see the technical data overleaf.

Note:
System only works with sufficient buffer volume
(3 000 to 4 000 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!

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Type	MG 2000-2ME ERC+
Gases	all technical gases (excluding toxic and corrosive gases also mixtures of fuel gas with air, O_2 or N_2O)
Mixing range	0–95%, 0–25%, (0–10%, 0–5% upon 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 (according to gases and mixture)	**inlet** / **outlet** flange DN80 / PN40 (carrier gas) / flange DN80 / PN40 flange DN50 / PN40 soldering nipple OD 54 soldering nipple OD 35 soldering nipple OD 22 (admix gas) 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. 460 kg – approx. 600 kg
Dimensions (HxWxD)	
Housing	approx. 1 500 x 1 400 x 650 mm (59.06 x 55.12 x 25.59 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 2000** (in Nm³/h) in relation to air

min. inlet pressure in barg (max. 14 / 20 bar)	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
4	760	–	–	–	–	–	–	–
5	990	910	–	–	–	–	–	–
6	1 190	1 170	1 030	–	–	–	–	–
7	1 390	1 390	1 330	1 140	–	–	–	–
8	1 580	1 580	1 570	1 470	1 240	–	–	–
9	1 780	1 780	1 780	1 740	1 590	1 300	–	–
10	1 980	1 980	1 980	1 970	1 890	1 710	1 410	–
11	2 180	2 180	2 180	2 140	2 140	2 030	1 820	1 490

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