GAS MIXER MG 200-ME

www.wittgas.com

MG 200-2ME

MG 200-2ME Ex

MG 200-2ME with analyser

Gas mixing systems for 2 or 3 defined gases, designed for a variety of industrial applications with high flows and fluctuating gas mixture production requirements.

Capacity range from 0 to approx. 284 Nm^3/h.
For the exact pressure and flow capacity ratios, please see the technical data overleaf.

Note:
System only works with sufficient buffer volume (to 500 litres depending on gas mixing capacity).

Easy operation

- a proportional mixing valve (-2ME) or three single mixing valves (-3ME), each with a control knob and %-scale, provide infinitely variable mixture settings
- gas mixture withdrawal possible from zero to the maximum flow capacity

High process reliability

- independent of pressure fluctuations in the gas supply
- intermittent gas mixture withdrawal possible
- lockable transparent door for protection of settings

Options

- for flammable gases available as Ex-version with separate control cabinet
- alarm module AM3: integrated inlet pressure monitoring with digital display for pressure (with analog pressure transmitters) plus optical alarm, adjustable alarm limits, obligation of acknowledgement, protection of alarms, interfaces for controlling external alarms etc.
- integrated gas analysis for the monitoring/control and documentation of the gas mixture production

Other models, options and accessories available upon request.

Please identify the individual gases at the time of enquiring!

WITT-Gasetechnik GmbH & Co KG, Salinger Feld 4-8, D-58454 Witten, Tel. +49 (0)2302-8901-0, witt@wittgas.com

GAS MIXER MG 200-ME

www.wittgas.com

Type	MG 200-2ME /-3ME; MG 200-2ME /-3ME Ex
Gases	all technical gases (excluding toxic and corrosive gases also mixtures of fuel gas with air, O_2 or N_2O)
Mixing range	0–25% or 0–100% by selection of suitable mixing range the accuracy corresponds to ISO 14175
Pressure settings	see table ☐ recommended settings for standard connections at flow velocity of ≤ 25 [m/s] in the mixer
Inlet pressure differential between the gases	max. 3 bar
Mixture output (air)	see table
Setting accuracy	±1% abs. (scale 0–25%), ±2% abs. (scale 0–100%)
Mixing precision	better than ±1% abs.
Gas connections **inlet** **outlet at mixer**	 G 1 RH with cone seat, soldering nipple for pipe OD 22 mm G 1 RH with cone seat, soldering nipple for pipe OD 28 mm

	-2ME	-2ME Ex	with analyser / -3ME
Versions			
Options	- monitoring of gas supply (PvDü) - monitoring of gas supply with triggering solenoid valve in the outlet (GB)		- customised other functions
Housing	small, stainless steel, IP54	medium, stainless steel, IP54	big, painted steel IP43
Weight	approx. 40 kg	approx. 45 kg	approx. 80 kg (-2ME), approx. 110 kg (-3ME)
Dimensions (HxWxD) [mm] **mixer** (without connections)	approx. 330 x 485 x 500	approx. 510 x 485 x 500	approx. 1 220 x 600 x 515
control cabinet (Ex) (without connections)		approx. 280 x 302 x 158	approx. 436 x 600 x 275 approx. 656 x 600 x 275 approx. 816 x 600 x 275

Voltage	230 V AC, 110 V AC or 24 V DC
Power consumption	230 V AC, 0.07 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 Designed for Oxygen Service in accordance with EIGA 13/20, CGA G-4.4 and AIGA 021/20: Oxygen Pipeline and Piping Systems Cleaned for Oxygen Service in accordance with EIGA 33/18, CGA G-4.1 and AIGA 012/19: Cleaning of Equipment for Oxygen Service

Flow **MG 200** (in Nm³/h) in relation to air

min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)

min. inlet pressure in barg (max. 20 bar)	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5
4	72	-	-	-	-	-	-	-	-	-
5	104	81	-	-	-	-	☐ ≤ 25 [m/s] in the mixer			
6	129	117	100	-	-	-				
7	154	146	133	109	-	-	-	-	-	-
8	176	171	163	146	121	-	-	-	-	-
9	198	194	189	176	159	125	-	-	-	-
10	217	216	212	203	193	171	133	-	-	-
11	245	245	240	235	226	207	185	150	-	-
12	260	260	260	259	250	235	221	193	160	-
13	284	284	284	280	274	264	249	230	202	160

WITT-Gasetechnik GmbH & Co KG, Salinger Feld 4-8, D-58454 Witten, Tel. +49 (0)2302-8901-0, witt@wittgas.com