

Gas Mixer MG 200-ME



High process reliability

Gas mixing systems for 2 or 3 defined gases

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.

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

Capacity range from 0 to approx. 284 Nm³/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).

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



Flow MG 200 (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	9,5	10,5
min. inlet pressure in barg (max. 20 bar)	4	72	-	-	-	-	-	-	-	-	-
	5	104	81	-	-	-	-	-	≤ 25 [m/s]	-	-
	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

Rev.V_122021_MG200-2ME_3ME_Ex_engl • Subject to change without notice



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Gas Mixer MG 200-ME



HTK gas mixers

Discover our PCU series

- Extremely precise & rapid control
- All components are modular
- High reproducibility
- Calibration with real gas
- Multiple gases per device
- Great potential savings for mixed gases
- Independent of temperature and pressure
- Easy to maintain and service
- 3-year warranty

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Technical Data			
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 ₂ O)		
Mixing range	0–25% or 0–100% by selection of suitable mixing range the accuracy corresponds to ISO 14175		
Pressure settings	see table <input type="checkbox"/> recommended settings for standard connections at flow velocity of ≤ 25 [m/s]		
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: G 1 RH with cone seat, soldering nipple for pipe OD 22 mm 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 at flow velocity of > 25 [m/s]		
Versions	-2ME	-2ME Ex	with analyser / -3ME
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. 1220 x 600 x 515
Dimensions (HxWxD) [mm] control cabinet (Ex) (without connections)		approx. 212 x 198 x 160 PvDü approx. 280 x 302 x 170	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 9001:2015 CE-marked according to: - EMC 2014/30/EU - Low Voltage Directive 2014/35/EU - PED 2014/68/EU - ATEX 114 Directive 2014/34/EU Designed for Oxygen Service in accordance with EIGA 13/20 and CGA G-4.4: Oxygen Pipeline and Piping Systems Cleaned for Oxygen Service in accordance with EIGA 33/18 and CGA G-4.1: Cleaning of Equipment for Oxygen Service		

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