



# MGP2

## Reference Gas Mixer

In both industrial and laboratory settings, there are processes requiring the handling of industrial gases. One of the most frequent operations is the **dilution or mixing of gases**. In order to do this, industries and labs can equip themselves with various types of gas handling devices.

The solution developed by **Gometrics** makes possible to blend gases with just one easy-install and easy-set-up device, connected to the reference gas cylinders. With this **state-of-the-art reference gas mixer**, introducing new proprietary cutting-edge technology in gas mixing, the scientists and laboratory experts will produce the required gas blends in an optimal fashion.

In the MGP-2 design, **Gometrics** has prioritized precision, versatility, ease of use and safety. It has also paid special attention to the user interface to maximize **its usefulness** and **ergonomics**.

## — Key features

- Seamless gas dilution and gas blend generation
- Test automation
- Remote operation
- Reliability & repeatability
- Safety & long lifetime

## — Main specifications

- **Controllable flow ranges per channel:**  
Maximum full scale per channel: 8 ml/min to 15 l/min (standard conditions)
- **Contact material:** AISI-316 stainless steel, Téflon®, Viton®, Kalrez®
- **Supply gases:**
  - Reference gas:** Connection to 8 (optionally 16) different gas cylinders
  - Mixing:** 4 (optionally 8) simultaneous active calibration cylinders
  - Gases:** Configurable gas type, multicomponent support
  - Balance gas:** Two balance gas inputs: dry air, N<sub>2</sub>, Ar (other user definable).

## — Applications

1. Preparation of gas blends (binary, ternary, etc.)
2. Calibration of gas detectors and gas analyzers
3. Analytical studies
4. Gas sensor development & characterization
5. Generation of controlled atmospheres for analysis
6. Research and development projects



## — Technical specifications

Supply pressure	600 kPa max. (6bar) 250 kPa min. (2,5bar)
Inputs	<b>Calibration gas:</b> Connection to 8 (optionally 16) different gas cylinders <b>Inert:</b> Two balance gas inputs: dry air, N <sub>2</sub> , Ar (others user definable)
Output	<b>Mixing:</b> 4 (optionally 8) simultaneous active reference cylinders
Gas types	<b>Gases:</b> Configurable gas type, configurable components
Power supply	100-260 VCA, 50/60 Hz, 100W
Contact material	AISI-316 stainless steel, Téflon®, Viton®, Kalrez®
Mixture generation capacity	Any setpoint combination possible for active channels
Controllable flow ranges per channel	Maximum full scale per channel: 8 ml/min to 15 l/min (standard conditions). Please ask for special ranges. Each channel can have its own range
Maximum output flow (mix)	The sum of the individual flows (up to 15 slm*) * higher flows please ask
Accuracy and repeatability per channel	<b>Repeatability:</b> < ± 0,2% of reading <b>Accuracy:</b> < ± 0,5% of reading and ± 0,1% F. E.* *May be higher depending on gas used
Connections	1/8" BSP (others available on request)
Weight	21,5 kg (47 lb)
Dimensions	403 x 263 x 552 mm