

DATA SHEET



GAS MIXER GA-MI-2.1 - PPM

On-site parts-per-million mixtures of pure gases

FLOW-REGULATOR

High Performance

ANALYSIS

inline

GSM - MODUL

Remote Access, SMS-Alarm

NAVIGATION / INDUSTRIAL PLC

10.1" Touchscreen

USB / RJ45

ACCESS

user administration

PORTABLE & LIGHT WEIGHT

10 - 400 LN/MIN

with 500ppm

portable or in compact enclosures for wall mounting available

SPECIFICATIONS

FLOW REGULATOR

measurement principle

thermal mass flow

pressure

0,2 – 10 bara

temperature

0-50°C

accuracy

± 0.3 % EV
+ ± 0.5% MV

measurement

0-400ln/min
(depending on the application)

dynamics

1:100

ANALYSIS

CO₂

Non Dispersive IR,
dual wavelength

O₂

Potentiometric zirconia sensor

H₂ or He

MEMS-density sensor

SYSTEM

size

typical 600x800 mm

weight

typical 20 kg

protection type

IP40

gas connections

typical 6-12 mm Parker A-lock,
optional imperial connections

power supply

100-240 VAC,
50-60 Hz

communication

Ethernet, USB, GSM-module
for remote access

APPLICATIONS

Welding

Biotech

R&D

Microelectronics

Medical engineering

Art

Food and Beverage

COMMUNICATION OF TODAY

The **GA-MI-2.1** is a high-quality gas mixer for the production of precise and stable gas mixtures in the trace gas range. A typical application is the production of forming gas Argon with 200 ppm O₂ content for aluminium welding processes. Furthermore the GA-MI has an integrated sensor which detects even the slightest deviations of the desired mixing ratio. It forwards an alarm to the selected users. A special character of the GA-MI is its precision even at low flow rates.



The gas mixer works with fully electronic thermal mass flow controllers. These guarantee high accuracy, stable control and high repeatability. The very high dynamic of the flow controllers allow mixtures in the range from 50ml/min up to 400l/min with constant accuracy.



Depending on the system, it is possible to work with a buffer tank or at the point of use. With pressure controlled buffer storage, a vessel is constantly kept above a defined minimum pressure to ensure the required quantity. The automatic switch function is controlled via the differential pressure.