

Mgas 5.X

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	

Gas Analyzer System MGAS 5.x



FUNCTION:

**Instrument for measuring
following gas concentrations**

Carbon monoxide	%CO
Carbon dioxide	%CO2
Hydrogen	%H2
Methane	%CH

Customizable Gas components are possible.

Following components will be calculated:

- C-Level from CO2, CO and Temperature
or Temperature, CO and mV*
- Dew point from CO2, H2 and Temperature
or Temperature, H2 and mV*

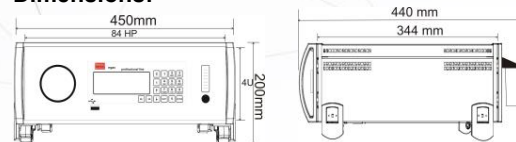
**mV from Lambda probe or O2-Probe*

This equipment is qualified to measure furnace atmospheres online with, max. 6 different gas sensors. Eight analogous outputs, eight digital inputs / outputs and an optional serial interface are possible. The communication with the serial interface can be done with Modbus, TCP Ethernet or Profibus. All Analog and Digital inputs / outputs can be configured manual e.g. as Alarm, starting calibration or switching off pump. An optional data logging function with USB data transfer and an internal memory with 16MB is available. The logging function can work in manual or timer mode. With the delivered Software "MGas Viewer" you can visual, print, export and administrate your stored data. The equipment is adjustable by a high-quality foil keyboard with self-explainable menu structure in German and English language. Automatic calibration for zero-point and span for all gas components is possible. There is an additional calibration function called "fast calibration" which allows the user to change the displayed gas concentrations manual. Additional it is possible to configure several protection functions, e.g. switching off at high Dew Point or low Process Temperature, to increase the lifetime of the Device. The advanced gas transducers represents the latest technological achievement in non-dispersive infrared gas transducers with high accuracy, good long-time stability and excellent repeatability.

CONSTRUCTION:

Transportable Instrument (desktop) or Rack-mounting

Dimensions:



-Desktop variant:

450 x 200 x 440 (w x h x d)

-Rack variant:

U=4, HP=84, D=400mm

Weight: Approx. 14 kg

Protection type: IP 20 to IEC 529

Power supply:

230V +4% / -10%, 50-60Hz or

115V ± 10%, 50-60Hz

Power: Approx. 70W / Slow Fuse 2A in Power switch

Communication:

MODBUS

RS232, RS422, RS485

Ethernet over TCP/IP

Profibus

Heat up time: Approx. 10 min.

Storage: 0...50 °C

Operation: 5...40 °C

Measuring range:

CO: 0...35,0 %

CO2: 0...0,500 %, 0...1,000 %, 0...2,000 %

H2: 0...80,0 %

CH4: 0...5,0 %, 0...10,0 %, 0...20,0 %

°C: 0...1200 °C

C: 0...1,50 %

O2: 0...1300 mV

DP: -30...+30 °C

Other measurement ranges on request.

Gas Analyzer System MGAS 5.x



TECHNICAL DATA:

Gas inputs:

- Measurement gas input
- Zero gas input
- Reference gas input

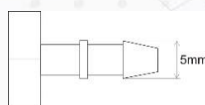
Pressure:

- Maximal pressure:
100 mbar overpressure (ü)
- Working pressure:
0 to 50 mbar overpressure (ü)
- Gas flow:
Approximately 0,4 l/min

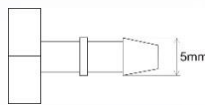
Gas outputs:

- Gas output 1
- Gas output 2
- Pressure: Pressureless

Connection type:
Hose connector



Connection type:
Hose connector



Measuring gas components: max. 6

Oxygen probes: Lambda probe or O₂ probe

Additional calculation:

% Carbon-level,
°C Dew point

Measuring method:

NDIR dual wavelength principle no moving parts

Influence values

Drift with autocal.	insignificant
Drift without autocal. months	± 2% FS over 12
Linearity error:	< 2% FS
Temperature dependence with autocal.:	insignificant
Temperature dependence without autocal.:	± 2% FS/10 °K
Pressure dependence: Compensated by internal pressure sensor between 800 mbar and 1200 mbar.	± 0.2% FS/10 mbar

Order number

800-1077

800-1069

800-1071

800-1073

800-1074

800-1075

800-1078

Device name

MGas 5.1

MGas 5.2 / CO / CO₂

MGas 5.3 CO / CO₂ / H₂ oder CH₄

MGas 5.4 CO/CO₂/CH₄/H₂/TP/%C/°C with DP sensor

MGas 5.4 CO/CO₂/CH₄/H₂/TP/%C/°C

MGas 5.5 CO/CO₂/H₂/CH₄/TP/%C/°C

MGas 5.5 CO/CO₂/H₂/CH₄/TP/%C/°C with DP sensor

Additional options and accessories

800-1201

800-1202

800-1203

800-1204

800-1205

800-1206

800-1207

800-1208

RS 485 with Modbus protocol

Profibus DB

Modbus TCP/IP Slave

Internal Datalogger, 16 MB memory capacity, USB + viewing software

O₂-probe / L-probe input with TC / %C - calculation

Multiplexer software in connection with a MESA multiplexer

Multiplexer software without a MESA multiplexer

19" housing

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