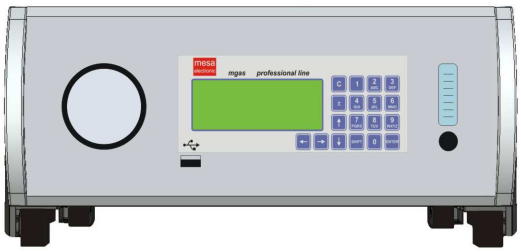


MGas NH_3

Gas Analyzer System
MGas NH_3 G5.0

Function:

Instrument for measuring following Gas-Concentrations:

- Ammonia %NH_3
- Water %H_20

Customizable Gas components are possible.

Additional measurement:

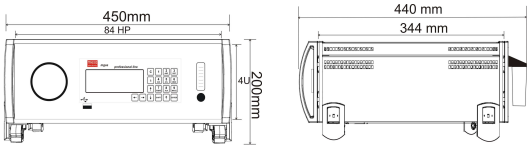
- Temperature

Based on state-of-the-art *Tunable Diode Laser Spectrometry* (TDLS) with high accuracy, good long-time stability and excellent repeatability, this equipment is qualified to measure furnace atmospheres online. Eight analogous outputs, eight digital inputs / outputs and an optional serial interface are possible. 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. Additional it is possible to configure several protection functions, e.g. low process temperature, in order to increase the lifetime of the device.

Technical Data:

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. 15 kg

Protection type:
IP 20 to IEC 529

Power supply:
230V +4% / -10%, 50-60Hz or
115V ± 10%, 50-60Hz

Power:
Approx. 100W / Slow Fuse 2A in Power switch

Heat up time:
Approx. 15 min.

Climate:
Storage: 0...50 ℃
Operation: 5...40 ℃

Measuring range:

NH_3:	0...20.000,0 ppm
H_2O:	0...30,0 % abs.

Other measurement ranges on request.

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MGAS_NH3_G5_datasheet_v5.0_EN

Doc. No. 800-1069*702

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E-mail: info@mesa-international.de, Homepage: www.mesa-gmbh.com

Technical data:

Measuring gas components:

NH_3

H_2O

Additional measurement:

Temperature, thermocouple K,S

Measuring method:

TDLS - Tunable Diode Laser Spectrometry

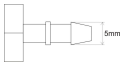
Influence values

Accuracy:	± 2% of reading or, ± 2 ppm whichever is larger
Precision 2σ:	± 0.9 ppm
Linearity:	included in the accuracy
Repeatability:	included in the accuracy
Zero drift over 2 h period:	below accuaracy
Span drift over 8 h period:	below accuaracy
Operating pressure:	800…1100 mbar

Gas inputs:

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

Connection type:
Hose connector



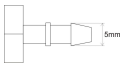
Pressure:

- Maximal pressure:
  100 mbar overpressure (ü)
- Working pressure:
  0 do 50 mbar overpressure (ü)
- Gas flow:
  Approximately 3 l/min

Gas outputs:

-Gas output 1
-Gas output 2

Connection type:
Hose connector



Pressure:
Pressureless

messen – steuern – automatisieren - messen – steuern – automatisieren - messen – steuern - automatisieren - messen – steuern - automatisieren

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