

## Gas Analyzer System MGAS NH3 5.1



### **FUNCTION:**

Instrument for measuring following gas concentrations

**Ammonia** 

%NH3

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.

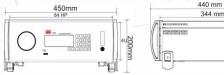
Automatic calibration for zero-point and span for all gas components is possible.

Additional it is possible to configure several protection functions, e.g. low process temperature, in order to increase the lifetime of the device.

#### 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

Communication - optional:

**MODBUS** 

RS232, RS422, RS485

**Profibus** 

Heat up time: Approx. 15 min.

**Storage:** 0...50 °C **Operation:** 5...40 °C

Measuring range:

NH<sub>3</sub>: 0...20.000,0 ppm





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#### **TECHNICAL DATA:**

| Gas inputs:   | Connection type: |   |                                    |
|---|------------------|---|------------------------------------|
| -Measurement gas input  | Hose connector   | Measuring gas components: NH <sub>3</sub> Additional calculation: Temperature, thermocouple K,S Measuring method: TDLS - Tunable Diode Laser Spectrometry Influence values: |                                    |
| -Zero gas input -Reference gas input  Pressure: - Maximal pressure: 100 mbar overpressure (ü) - Working pressure: 0 do 50 mbar overpressure (ü) - Gas flow: Approximately 0,4 l/min | 5mm              |   |                                    |
|   |                  |   |                                    |
|   |                  | Gas outputs: -Gas output 1 -Gas output 2 Pressure: Pressureless   | Connection type:<br>Hose connector |
| Span drift over 8 h period:   | below accuracy   |   |                                    |
| Operating pressure:   | 8001100 mbar     |   |                                    |
| -/-/-   |                  |   |                                    |

Order number

**Device name** 

800-1076

MGas 5.1 NH3

Additional options and accessories

included

Internal Data logger, 16 MB memory capacity, USB + viewing software

