

Air oxygen measuring device



STANDARD-FUNCTIONS



NEW

HIGHLIGHTS:

- Alarm detector with integrated horn
- Serial interface
- Battery and d.c. operation
- Most simple calibration in atmospheric air
- automatic compensation of ambient air

ADDITIONAL FUNCTIONS GMH 3695:



WIDE RANGE OF APPLICATION FOR
YOUR HOME, JOB AND HOBBY!

THIS DEVICE MIGHT BE USE AS MONITORING DEVICE FOR THIS APPLICATIONS, HOWEVER, IT DOES NOT REPLACE ANY CONTROL DEVICE LIABLE TO REGISTRATION.

GMH 3692

Air oxygen measuring device w/o sensor

GMH 3695

Air oxygen measuring device w/o sensor with data logger

Application:

- **Bio chemistry:**
Oxygen monitoring in breeding chambers for cell cultures. Monitoring of fermenting process of fruits in fermentation plants etc.
- **Medicine:**
Monitoring of oxygen concentration in respirators; checking of breathing, monitoring of oxygen concentration in incubators, oxygen tents etc.
- **Food technology:**
Monitoring of residual oxygen in packages (e.g. coffee, tea, etc.).
Monitoring of oxygen content during production processes.
- **Air conditioning and ventilation technology:**
Oxygen measurements, air quality monitoring, measuring of oxygen concentration in enclosed air conditioning systems, etc.
- **Sport:**
Checking of oxygen content in compressed air bottles (diving, etc.).

Specification:

Measuring ranges:

Oxygen concentration: 0.0 ... 100.0 % O₂ (gaseous)
0 ... 1100 hPa O₂

Temperature: -5.0 ... 50.0 °C

Air pressure: GMH 3692: 10 ... 1200 hPa
GMH 3695: 10 ... 11000 hPa

Accuracy: (device) (at nominal temperature = 25 °C)

Oxygen concentration: ±0.1 % ± 1 digit

Temperature: ±0.1 °C ± 1 digit

Air pressure:

Oxygen electrode: for suitable sensors p.r.t. next page

Sensor connection: 6-pin screened Mini-DIN-socket.
GMH 3695: additional pressure ports

Display: two 4 digit LCDs (12.4 mm or 7 mm high),
as well as additional arrows.

Pushbuttons: 6 membrane keys for ON/OFF-switch, selection of meas. range, min- and max- value memory, hold-function, calibration etc.

Working temperature: 0 ... +50 °C

Relative humidity: 0 ... +95 % RH (non-condensing)

Storage temperature: -20 ... +70 °C

Interface: serial interface, direct connection to RS232 or USB interface of a PC via electrically isolated interface converter GRS 3100 or GRS 3105 resp. USB 3100 N (p.r.t. accessories).

Power supply: 9 V-battery as well as additional d.c. connector for external 10.5-12 V direct voltage supply. (suitable power supply: GNG10/3000)

Power consumption: approx. 1.5 mA

Housing: impact-resistant ABS plastic housing, membrane keyboard, transparent panel. Front side IP65, integrated pop-up clip.

Dimensions: 142 x 71 x 26 mm (H x W x D)

Weight: approx. 160 g (incl. battery)

Scope of supply: Device, battery, manual

Additional functions:

Temperature compensation: automatic via temperature sensor, integrated in probe housing.

Air pressure compensation: The O₂ concentration will be compensated according to the absolute atmospheric pressure set.

Calibration:

1-point calibration: extremely simple quick calibration in atmospheric air. (press button to compensate unit to 20.9 %).

2-/3-point calibration: first point at atmospheric air (20.9 %), second and third point 0 or 100 %.

Calibration interval:

The device asks for a recalibration after a selectable time period (1 - 365 days or inactive).

GMH 3695: additional calibration history

Analog output (additionally for GMH 3695):

0 - 1 V, freely scalable

Pressure nozzles for pressure compensation

Accessories and spare parts:

Suitable sensors p.r.t. next page

GKK 3000

case (275 x 229 x 83 mm) with punched lining suitable for GMH3xxx

USB 3100 N

interface converter, electrical isolated

GRS 3105

interface converter with 5 connection points, electrical isolated, for the connection of 5 devices to one PC (RS232).

ST-R1

device protection bag with cut-out for probe connection