

AIR OXYGEN MEASURING DEVICE



STANDARD-FUNCTIONS:



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

HIGHLIGHTS:

- Alarm detector with integrated horn
- automatic compensation of ambient air

ADDITIONAL FUNCTIONS GMH 3695:



THE DEVICE IS ONLY INTENDED FOR CONTROL PURPOSES FOR THESE APPLICATIONS. IT IS NOT A REPLACEMENT FOR A MONITORING DEVICE SUBJECT TO AUTHORISATION!

GMH 3692

Product-ID: 605919

Air oxygen measuring device w/o sensor

GMH 3695

Product-ID: 605921

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.).

Note: not suited for „under water“-applications (rebreather, etc.)

Specifications:**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: ±3 hPa or 0.1 % v. MW (whichever is higher)

Oxygen sensor: for suitable sensors p.r.t. page 56

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. 0.6 mA, approx. 300 h

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 (GMH 3695 only): 0 - 1 V, freely scalable

Pressure nozzles for pressure compensation

Data logger (GMH 3695 only):

cyclic: 8000 data sets, adjustable cycle time: 1 s ... 60 min

manual: 1000 data sets, with measuring point input

Accessories and spare parts:

Suitable sensors

p.r.t. next page

GKK 3000

Product-ID: 601048

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

USB 3100 N

Product-ID: 601092

interface converter, electrical isolated

GRS 3105

Product-ID: 601099

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

GSOFT 3050

Product-ID: 601336

Software for operation of logger devices

ST-R1

Product-ID: 601066

device protection bag with cut-out for probe connection