

## 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 % O<sub>2</sub> (gaseous)  
0 ... 1100 hPa O<sub>2</sub>

**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 O<sub>2</sub> 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