

ATMOSPHERIC OXYGEN METER



WIDE RANGE OF APPLICATIONS

HIGHLIGHTS:

- Alarm monitoring with integrated sounder
- Ambient pressure compensation with integrated barometer

ADDITIONAL FUNCTIONS OF GMH 3695:

- Pressure connection



THE DEVICE IS FOR CHECKING ONLY. IT DOES NOT REPLACE A MONITORING DEVICE THAT REQUIRES APPROVAL!

GMH 3692

Item No. 605919

Portable instrument for gaseous oxygen, device only, without sensor

GMH 3695

Item No. 605921

Portable instrument for gaseous oxygen with data logger, device only without sensor

APPLICATION:

Biochemistry:

Oxygen monitoring in incubators for growing cell cultures. Monitoring the fermentation of fruits in fermentation plants, etc.

Medical technology:

Monitoring the oxygen concentration in ventilators; breathing air control; oxygen concentration monitoring e.g. in oxygen tents, etc.

Food technology:

Checking the residual oxygen in packaging (e.g. coffee, tea, MAP, etc.). Monitoring of the oxygen content in critical production processes and storage.

Air conditioning and ventilation technology:

Oxygen measurement; air quality monitoring; oxygen concentration measurement in closed ventilation systems, etc.

Sports:

Diving gas test: checking the oxygen concentration in nitrox, trimix or similar gas mixtures
Note: Not suitable for use in "underwater applications" (rebreather etc.)

TECHNICAL SPECIFICATIONS:

Measuring ranges

O₂-concentration:	0.0..100.0 % O ₂ (gaseous) 0..1100 hPa O ₂
Temperature:	-5.0 .. + 50.0 °C
Air pressure:	GMH 3692: 10..1200 hPa; GMH 3695: 300..5000 hPa
Accuracy: (device) (at nominal temperature = 25 °C)	
O₂-Konzentration:	± 0.1 % ± 1 digit
Temperature:	± 0.1 °C ± 1 digit
Air pressure:	± 3 hPa or 0.1 % of meas. MW (higher applicable)
Oxygen sensor:	observe max. operating pressure of the oxygen sensor, e.g. GOEL 370/381: 500..2000 hPa abs.
Sensor connection:	6-pole shielded mini-DIN socket. at GMH 3695: additional nozzle for pressure connection
Display:	two 4-digit LCD displays (12.4 mm or 7 mm high) and additional arrows.
Control elements:	6 membrane buttons for on/off switch, selection of the measuring range, min and max value memory, hold function, calibration, etc.
Working temperature:	0 .. + 50 °C
Relative humidity:	0 .. + 95 % RH (not condensing)
Storage temperature:	-20 .. + 70 °C
Interface:	serial interface, via galv. isolated interface converter GRS 3100 or GRS 3105 or USB 3100 N (accessory) can be connected directly to the RS232 or USB interface of a PC.

Power supply:

9V battery and additional power supply socket for external 10.5..12 V DC voltage supply (suitable power supply: GNG10/3000)

Battery life:	approx. 300 h
Housing:	Made of impact-resistant ABS, membrane keyboard, transparent panel, integrated pop-up clip
Dimensions:	142 x 71 x 26 mm (H x W x D)
Weight:	approx. 160 g (cpl. with battery)
Scope of delivery:	Device, battery, test report, operating instructions

ADDITIONAL FUNCTIONS:

Temperature compensation:

automatically via the temperature sensor integrated in the sensor housing.

Air pressure compensation:

The O₂ concentration is automatically compensated with the integrated pressure sensor.

Calibration: 1-point calibration:

after a selectable period (1..365 days or inactive) a recalibration is requested. (device is calibrated to 20.9 % by pressing the key).

2-/3-point calibration:

first point in air (20.9 %), second and third 0 or 100 %.

Calibration interval:

after a selectable period (1..365 days or inactive) a recalibration is requested.

GMH 3695: additional calibration history

Analog output (GMH 3695 only): 0..1 V, freely scalable

Pressure connection piece (only GMH 3695): for pressure compensation

Data logger (GMH 3695 only): cyclic: 8000 data records, cycle selectable: 1 s..60 min Single: 1000 data records, with measuring point input

ACCESSORIES OR SPARE PARTS:

GKK 3000

Item No. 601048

Device with soft cutouts for 1x GMH 3000, 275 x 229 x 83 mm (W x H x D)

USB 3100 N

Item No. 601092

Interface converter GMH3xxx <=> PC, USB, galvanic isolation

GRS 3105

Item No. 601099

5-way interface converter GMH3xxx <=> PC, RS232

GSOFT 3050

Item No. 601336

Windows software for GMH 3000 and GMH 5000 with logger

ST-R1

Item No. 601066

GMH 3000 protective bag made of Nappa leather, 1 connection, round