

## 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 % 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:**

**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 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 (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