**AIR OXYGEN MEASURING DEVICE**

**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)
- **Temperature:** ±0.1 °C ± 1 digit
- **Air pressure:** ±3 hPa or 0.1 % v. MW (whichever is higher)

**Sensor connection:** for suitable sensors p.r.t. page 56

**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 resp. USB 3100 N (p.r.t. accessories).

**HIGHLIGHTS:**
- Alarm detector with integrated horn
- Automatic compensation of ambient air

**ADDITIONAL FUNCTIONS GMH 3695:**
- Alarm compensation with integrated horn and pressure compensation
- Automatic compensation of ambient air

**Power supply:** 9 V-battery as well as additional d.c. connector for external 10.5-12 V direct voltage supply. (suitable power supply: GNS10(5)000)

**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

**GKX 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

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