Air oxygen measuring device

- Double display for oxygen and temperature
- Measured units: O₂-concentration and O₂-partial pressure
- Alarm detector with integrated horn
- Automatic temperature compensation
- Min./Max. value memory, Hold function
- Serial interface, device can be connected to bus system (up to 5 devices can be connected to one PC interface)
- Battery and d.c. operation
- Wide range of application
- Most simple calibration in atmospheric air

GMH 3691 Sensor not included - please order separately!

Specification:
- Measuring ranges:
  - Oxygen concentration: 0.0 ... 100.0 % O₂ (gaseous)
  - Partial oxygen pressure: 0 ... 1100 hPa O₂
- Temperature: -50.0 ... +50.0 °C
- Accuracy (device) (at nominal temperature = 25°C):
  - Oxygen concentration: ±0.1 % ±1digit
  - Partial oxygen pressure: ±1 hPa ±1digit
- Temperature: ±0.1 °C ±1digit
- Oxygen electrode: for suitable sensors p.r.t. page 51
- Display: two 4 digit LCDs (12.4mm or 7mm 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 time: 0 to 70°C (device)
- Power supply: 9V battery type IEC 6F22 (inclusion), as well as additional d.c. connector for external 10.5-12V direct voltage supply. (suitable power supply: GNG10/3000)
- Power-Off-function: 1...120min (can also be deactivated).
- Power consumption: approx. 1.5 mA
- Low battery warning: △ and “BAT”
- Dimensions: 142 x 71 x 26 mm (H x W x D)
- Impact-resistant ABS plastic housing, membrane keyboard, transparent panel. Front side IP65, integrated pop-up clip.
- Weight: approx. 160 g (cpl. with battery)

Accessories:
- Suitable sensors p.r.t. page 51
- 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, electr. isolated, for the connection of 5 GMH3xxx to one PC (RS232)
- ST-R1 device protection bag with cut-out for probe connection

GMH 3691 GOG

Application:
Essentially there, where delicate products are conserved by low-oxygen atmospheres (protective gas), this instrument is suitable to check the residual oxygen content.

- Packaging industry
- Food industry

Specification: (summary)
- Meas. range: 0.0 ... 100.0 % O₂ (O₂-concentration)
- Accuracy: (whole system - during carefully calibration and measuring)
  - 1-point-calibration: ±0.2 %O₂ ±1 digit (for concentrations < 10%)
  - 2-point-calibration: ±0.1 %O₂ ±1 digit (for concentrations > 10%)
- Oxygen probe: Oxygen-partial pressure probe, built-in external sensor housing
- Response time: T<sub>90</sub> < 10 sec., depending on temperature
- Operation life: warranty for sensor element 12 months (appropriate application and ambient pressure)
- Working temperature: 0.5 to 2.0 bar abs.
- Over-lunder-pressure: max. 0.25 bar
- Working temperature: 0 to 50°C (sensor), -20 to 50°C (device)
- Relative humidity: 0 to +95%RH (non-condensing)
- Storage temperature: -15 to 60°C (sensor), -20 to 70°C (device)
- Power supply: 9V battery type IEC 6F22
- Dimensions case: approx. 394 x 294 x 106 mm
- Weight: approx. 1400g (cpl. set)

GMH 3691 and accessories sensors p. 51

Scope of supply:
Instrument GMH3691, hand pump with air tube, GOG oxygen sensor with penetration needle, case GKK3500, spare needle ø=0.9mm, rubber foam sticker (40 pieces), operating manual.

Spare elements, accessories:
- GOG-SET Set without instrument
- GOG-SET Scope of supply: GOG oxygen sensor with penetration needle, hand pump with air tube, case GKK3500, spare needle and 40 rubber foam sticker
- GOEL 370 spare sensor element
- GOG-N needle, ø=0.9mm (5 pieces)
- GOG-A rubber foam sticker (40 pieces)
- ST-R1 device protection bag with cut-out for probe connection

for add. accessories p.r.t. page 56 - 58

Residual oxygen meas. device

for quick and cost-effective measurement of residual oxygen

Handheld Instrument

Display/Controller

Logger/EASYB.us

Transmitter

Temperature probe

Alarm/Protection