Compact air oxygen meas. device

GOX 100

device incl. sensor, tube-adapter and T-piece

- Min-/max- value memory
- Sensor element is exchangeable without tools
- Easy calibration at ambient air
- Cost-effective sensor elements with long life-time

Specification:

Meas. range: 0,0 ... 100,0 % O_2 (O_2-concentration)
Accuracy: (±1 digit) (at nominal temperature = 25°C)
± 0.1 %O2 ± 1 digit (calibrated device)
Probe connection: via 0.7m jack-connector-cable attached to the device.
Oxygen Probe: Oxygen-partial pressure probe, mounted in external sensor housing
Response Time: t90 < 10 sec., depending on temperature
Life-time: 12 months (appropriate application and ambient pressure)
Working pressure: 0.5 to 2.0 bar absolute
Measuring freq.: approx. 1 meas. per sec.
Display: 3½-digit, 13mm high LCD-display
Working temperature: -5 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
Power consumption: approx. 120µA (battery life-time with standard zinc-carbon-battery over 2500 h)
Low battery display: "BAT"
Auto-off-function: 1 ... 120 min. (can be switched off)
Housing: Impact resistant ABS-enclosure, front side IP65
Dimensions: approx. 106 x 67 x 30 mm, without sensor and sensor-cable
Weight: approx. 185g incl. battery and sensor

Spare peaces, accessories:

GOEL 369 spare sensor element
ESA 369 spare tube-adapter
ZOT 369 spare T-adapter
GB 9 V spare battery 9V
GKK 252 case (235 x 185 xx 48 mm) with foam lining

for add. accessories p.r.t. page 35

Air oxygen measuring device

- Double display for oxygen and temperature
- Measured units: O_2-concentration and O_2-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 % O_2 (gaseous)
Partial oxygen pressure: 0 ... 1100 hPa O_2
Temperature: -5,0 ... 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 sensores p.r.t. page 33*
Sensor connection: 6-pin screened Mini-DIN-socket.
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 temperature: 0 to +50°C
Relative humidity: 0 to +95%RH (non-condensing)
Storage temperature: -20 to +70°C
Interface: serial interface, direct connection to RS232 or USB interface of a PC via electrically isolated interface adapter GRS3100 or GRS3105 resp. USB3100 (p.r.t. accessories).
Power supply: 9V-battery, type IEC 6F22 (included), 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 deaktivated).
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)

Functions:
Min-/Max-value memory: max. and min. values will be memorized.
Hold function: by pressing a button the current meas. value will be memorized.
Alarm: integrated limit detector for min. or max. alarm.
Temperature compensation: automatic via temperature sensor, integrated in probe housing.
Air pressure compensation: The O_2 concentration will be compensated according to the abs. atmospheric pressure set (500...2000hPa).

Calibration: 1-point calibration: extremely simple quick calibration in atmospheric air. (press button to compensate unit to 20.9%).
2-point calibration: first point at atmospheric air (20.9%), second point freely selectable

Application: Wide range of application for your home, job and hobby! For example:
- 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.
- Safety technology, safety at work: Oxygen monitoring in mines/pits, underground parking lots, wine cellars, cooling chambers, greenhouses or stores. Oxygen monitoring or alarm in case of danger of suffocation when working in tanks, wells etc.
- 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 breathing apparatuses (diving, etc.), oxygen monitoring for gliding.

The device can only be used to check during these applications. -> no substitute for approved monitoring device!

Accessories:

Suitable sensores **p.r.t. page 33**

GKK 3000 case (275 x 229 x 83 mm) with punched lining suitable for GMH3xxx
GRS 3100 interface converter, electrical isoleted, for RS232
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

for add. accessories p.r.t. pages 34, 35