



G 1690 O₂-ANALYSER / OXYGEN METER



HIGHLIGHTS:

- modern and functional in pocket size
- water-protected IP65 and IP67
- convenient air balancing at the push of a button
- 3-line display with lighting/overhead display at the push of a button
- durable and maintenance-free sensor
- Scuba diver variant "T": with MOD calculation for Nitrox
- robust, long battery life
- made in Germany

G1690-35

Art. No. 482286

O₂ analyzer, CO₂-resistant, recommended 0.2..35 %

G1690-MAX

Art. No. 482459

O₂ analyzer, 0..100 %

G1690T-35

Item No. 482716

O₂ analyzer, MOD function, recommended 0.2..35 %

G1690T-MAX-DIVE-CAN

Art. No. 482448

O₂ analyzer, MOD function, 0..100 %, case GKK 252, diving tank adapter GZ 5826, sensor in box

GENERAL:

The G 1690 intentionally focuses on the essential functions of measurement technology for the reliable measurement of oxygen concentration in gases. The sensors used, GOEL 370 and GOEL 381, are essential for reliability and longevity, and are especially suitable for wet environments. The devices also impress with their ergonomics, water protection and display lighting.

APPLICATION:

Thus, the G 1690 is an economical and precise submersible instrument, but at the same time a high-quality entry device for many other oxygen measurements – for example, inert gas measurements.

Note: the device is used for additional checking. It does not replace an approved measuring instrument or safe methods of creating gas mixtures

TECHNICAL SPECIFICATIONS:

Measuring ranges

Oxygen concentration: G 1690-35/ G 1690T-35: 0.0 ... 100.0 % by volume O₂, recommended for 0.2 ... 35.0 % vol % O₂ (outside of reduced accuracy) Standard for diving gas in recreational diving, protective gases with increased CO₂ content and much more.

G 1690-MAX/ G 1690T-MAX: 0.0 ... 100.0 % by volume O₂ (also for values <= 0.2 and over vol. - % O₂) e.g. for shielding gases with the lowest O₂ proportion or high percentage oxygen mixtures with low O₂ proportion, resolution: 0.1 % by volume O₂

G 1690T-XXX: **Recreational diver variant** : MOD calculation for nitrox up to 36 % O₂ + 169 ft. MOD resolution 1 ft. 0 .. + 60 m MOD, resolution: 1 m

Sensor: Connections M16x1 thread, 3,5 mm jack plug socket max. pressure: ± 0.25 bar difference at sensor membrane 0.6 ... 1.75 bar absolute

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Max. Pressure: ± 0.25 bar difference at sensor membrane 0.6 ... 1.75 bar absolute

Response time: 90 % in <10 sec., temperature dependent

Accuracy with calibrated device at nominal temperature: Variants G 1690_-35: GOEL 370 sensor < 2 vol % O₂: +/- 0,2 % < 35 vol % O₂: +/- 0,5 %, not specified above

Variants G 1690_-MAX: GOEL 381 sensor < 2 vol % O₂: +/- 0.1 % < 35 vol % O₂: +/- 0.5 % < 100 % by volume O₂: +/- 1,5 %

Sensor cable:	0.95 m, jack plug, elastic sensor protection
Measuring rate:	approx. 1 measurement per second
Nominal temperature:	25 °C
Display:	3-line with battery status display, background lighting, protected by a break-proof pane, overhead display at the push of a button
Service:	4 durable, easy-to-use buttons
Working conditions:	0 .. + 45 °C; recommended 5..30 °C: in this range optimized temperature compensation 0 .. + 95 % RH (short-term condensation possible)
Storage temperature:	-20 .. + 50 °C
Power supply:	2x AA battery (incl.) > 3000 h battery life, 4-stage battery status display, discharge display "BAT LO" Automatic shutdown, adjustable
Housing:	Break-proof ABS with bolted battery compartment
Protection class:	IP65 / IP67, sensor IP54
Dimensions:	108 x 54 x 28 mm (H x W x D) without sensor
Weight:	approx. 240 g including sensor

STANDARD SPARE PARTS:

GOEL 370

Art. No. 601490

Spare sensor

GOEL 381

Art. No. 610035

Spare sensor

GB-AA-2

Art. No. 479249

Replacement batteries 2 x AA

ESA 369

Art. No. 603058

Tube adapter / flow diverter

ZOT 369

Art. No. 603094

T-piece to attach to ESA 369

GENERAL GAS MEASUREMENTS:

GZ-11

Art. No. 603144

Flow adapter for 6 mm

GS 150

Art. No. 610005

Gas pump for gas sampling

ACCESSORIES DIVING GAS:

GOEL 370

Art. No. 601490

Spare sensor

GZ 5826

Art. No. 482473

Combination adapter for compressed air (G5 / 8) and nitrox DIN M26