

ECO 531

Precisely solved oxygen meter



- Modern and functional housing
- Waterproof (IP65 / IP67)
- Convenient adjustment at the touch of a button
- Long-life and maintenance-free sensor
- 3-line display / overhead display at the push of a button
- Backlight
- Robust, long battery life
- Hold-function to freeze measured values
- Min/Max-Funktion für minimal und maximal erfasste Messwerte
- Made in Germany

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DESCRIPTION

The oximeter with the maintenance-friendly galvanic sensor is an entry-level device suitable for everyday use, both concentration in mg / l (ppm) and saturation in percent can be read off directly without using tables.

The adjustment takes place at the push of a button in ambient air. For field use in bodies of water, the use of a GSKA protective cap is recommended to protect the membrane.

Display

Thanks to the backlight, the three-line LCD display offers ergonomic wide-angle visibility - by day and by night.

The HOLD function enables the display values to be frozen.

Power supply

2 powerful AA batteries, the energy-saving design and the configurable automatic switch-off function ensure long operation.

Configurable LCD backlight for further energy saving options.



ECO 531 Sensor

TECHNICAL DATA

Measurement specifications

| | |
|-------------------------------|--|
| | ECO531 |
| Measuring range | 0.0 to 20.0 mg / l (or ppm) O ₂ concentration 0 to 200 % O ₂ saturation |
| Accuracy | For oxygen: ± 1.5 % of MW ±0.2 mg / l or ±1.5 % of MW ±2 % O ₂ saturation |
| Application area | Freshwater and seawater aquariums, aquaculture / fish farming, monitoring of wells and bodies of water |
| Sensors / measuring inputs | Galvanic sensor (active membrane type), electrolyte KOH Cable 2 m or 4 m, permanently connected to device, with integrated temperature sensor |
| Response time t ₉₅ | 10 s at nominal temperature |
| Area of application sensor | max. 3 bar (~30 m water depth) 0 to 40 °C |

Family Datasheet

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General specifications

| | |
|----------------------|---|
| Display | 3-line with battery status indicator, Backlight, protected by shatterproof screen, overhead display at the push of a button |
| Power supply | 2 x AA-Alkaline batteries (scope of delivery) |
| Power consumption | < 1 mA |
| Battery life | > 3000 h typ. continuous operation (without backlight) |
| Automatic Power-Off | Yes, configurable by the user |
| Operating conditions | -20 ... +50 °C (recommended 5..30 °C); 0 ... 95 % r.h. (short-term condensation possible) |
| Storage temperature | -20 to 50 °C (without batteries) |
| Schutzart | IP65 / IP67 |
| Dimensions | 108 x 54 x 28 mm |
| Weight | approx 240 g (including sensor) |
| Housing | break-proof ABS, polyester (front panel) |

Scope of delivery

- Hand-held measuring device with fixed sensor
- Replacement membrane cap GWOK02
- Replacement electrolyte KOH100
- 2xAA batteries
- Manual
- Additional accessories depending on Set-Option

ORDERING CODES

| | |
|---|---|
| ECO531 | |
| Waterproof dissolved oxygen meter (DO) with sensor (earlier G 1610) | |
| 1 | Cable length |
| - | Waterproof dissolved oxygen meter (DO) with sensor, Cable length 2 m |
| -L04 | Waterproof dissolved oxygen meter (DO) with sensor, cable length 4 m |
| -L10 | Waterproof dissolved oxygen meter (DO) with sensor, cable length 10 m |

Family Datasheet

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Standard-Articles

| | | |
|-------------|--|-----------------------|
| ECO531 | Waterproof handheld for dissolved oxygen incl sensor Scope of delivery: Device incl. sensor, manual, 2 x battery, spare membrane cap GWOK 02, electrolyte KOH | Art.Nr. 486765 |
| ECO531-1002 | Waterproof handheld for dissolved oxygen incl. Sensor Scope of delivery: Device incl. sensor, manual, 2 x battery, spare membrane cap GWOK 02, electrolyte KOH, case GKK 1002 | Art.Nr. 487065 |
| ECO531-L04 | Waterproof handheld for dissolved oxygen incl. Sensor Scope of delivery: Device incl. Sensor 4 m, manual, 2 x battery, spare membrane cap GWOK 02, electrolyte KOH | Art.Nr. 487066 |
| ECO531-L10 | Waterproof handheld for dissolved oxygen incl. Sensor Scope of delivery: Device incl. Sensor 10 m, manual, 2 x battery, spare membrane cap GWOK 02, electrolyte KOH | Art.Nr. 487067 |

Accessories

Replacement parts:

| | | |
|---------|-----------------------------|------------------------|
| GB-AA-2 | Replacement batteries 2x AA | Art.-Nr. 600704 |
|---------|-----------------------------|------------------------|

Weiteres Zubehör:

| | | |
|-------------|---|------------------------|
| G1000-Cover | Rubber protection case, incl. 2 magnets | Art.-Nr. 483958 |
| ST-G1000 | Protection bag, leather | Art.-Nr. 611373 |
| GCLIP1000 | Metal belt clip, adhesive | Art.-Nr. 475820 |
| G1000-BASE | Tablet stand and wall suspension | Art.-Nr. 481885 |
| GKK1000 | Case | Art.-Nr. 611603 |

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