

Family Datasheet

ECO 531

Waterproof handheld for dissolved oxygen incl. sensor



- Modern and functional housing
- Waterproof (IP65 / IP67)
- Convenient adjustment at air on keypress
- Incl. galvanic oxygen sensor with temperature measurement
- 3-line display / overhead display on keypress
- Backlight
- Durable, long battery life
- Hold-function to freeze measured values
- Min/Max-Function for minimum and maximum values

ECO 531**Waterproof handheld for dissolved oxygen incl. sensor****DESCRIPTION**

The dissolved oxygen meter 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 automatically takes place at ambient air, simply by keypress. 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.

Application

The ECO 531 is an economic oxygen measuring device for fishery, fish breeding, aquarium, aquaculture and well water measurement applications and many more.



ECO 531 sensor GWO 5610



Sensor with optional membrane protection GSKA 3600

ECO 531

Waterproof handheld for dissolved oxygen incl. 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 value ± 0.2 mg / l or ± 1.5 % of value ± 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
Operating conditions of sensor	max. 3 bar (~30 m water depth) 0 to 40 °C (recommended 5 ... 30 °C)

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	0 ... 40 °C; 0 ... 95 % r.h. (short-term condensation possible)
Storage temperature	-10 to 60 °C (without batteries)
Protection degree	IP65 / IP67
Dimensions	108 x 54 x 28 mm (instrument without sensor)
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

ECO 531

Waterproof handheld for dissolved oxygen incl. sensor

ORDERING CODES

ECO531		
Waterproof dissolved oxygen meter (DO) with sensor (earlier G 1610)		
1	Cable length	
	-	Device in carton box, batteries, manual, with fix mounted sensor 2 m., GWOK02, KOH100
	-L04	Device in carton box, batteries, manual, with fix mounted sensor 4 m., GWOK02, KOH100
	-L10	Device in carton box, batteries, manual, with fix mounted sensor 10 m., GWOK02, KOH100
	-L02-1002	Device in case GKK 1002, batteries, manual, with fix mounted sensor 2 m, GWOK02, KOH100

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 no. 486765
ECO531-L02-1002	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 no. 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 no. 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 no. 487067

Accessories

GWOK 02	Spare membrane head	Art no. 608012
KOH 100	Spare electrolyte	Art no. 603356
GKK 1002	Small case water-analysis	Art no. 411907
GSKA3600	Protection hat for depth measuring PVC	Art no. 601414
GSKA3610	Protection hat for depth measuring gunmetal	Art no. 607267
G1000-Cover	Rubber protection case, incl. 2 magnets	Art no. 483958
ST-G1000	Protection bag, leather	Art no. 611373
GCLIP1000	Metal belt clip, adhesive	Art no. 475820
G1000-BASE	Tabler stand and wall suspension	Art no. 481885

For further articles, please visit Senseca website.