MULTISENSOR WATER ANALYSIS HANDHELD MEASURING DEVICE

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MIN MAX

NEW!

HIGHLIGHTS:

- simultaneous measurement of pH / oxygen or pH / conductivity and the corresponding temperatures
- integrated galvanic isolation enables simultaneous measurement with affordable standards sensors
- the display enables convenient reading of several values simultaneously and the measurement curve in diagram form
- the data logger can be read directly via USB – with standard smartphone cable or software
- simple and convenient battery charging via USB connection

G 7500
Art. no. 414318
MultiSensor water analysis handheld instrument

G 7500-PH/O2
Art. no. 414787
MultiSensor water analysis handheld instrument
Device, GE125-L02+accessories, GWO 5610-L02+accessories, GKK 2021

G 7500-PH/CON
Art. no. 414788
MultiSensor water analysis handheld instrument
Device, GE125-L02+accessories, LF425-L02+accessories, GKK 2021

G 7500-PH/CON/O2
Art. no. 414789
MultiSensor water analysis handheld instrument
Device, GE125-L02+accessories, LF425-L02+accessories, GWO5610-L02+accessories, GKK 2021

General:

The G 7500 is a comfortable multi-channel water analysis device for simultaneous measurement of two measurement variables and the corresponding temperature. All significant electrochemical measurements can be combined:
- pH/ Redox + conductivity/salinity
- pH/ Redox + dissolved oxygen

The backlit graphic display shows all parameters in plain text in German or English; other languages can be integrated (additional charges indicated on request). Large display or measurement diagram can also be represented. Use of our proven standard plug connectors guarantees that you can use our standard sensors – without additional costs due to complicated technology in the sensors. The device is distinguished by its impressive performance and the affordable system price (refer also to our sets). The state-of-the-art device platform uses the standard USB cable to charge the internal batteries (interchangeable) and read the data logger without the need for additional software or adapters. The logger is read conveniently like a USB 2.0 memory stick.

Application:

Therefore, you have applications such as surface water monitoring, neutralisation processes or agricultural measurements ready to hand in a compact format.
- monitoring of bodies of water
- drinking water preparation
- sewage treatment plants
- fish husbandry and aquaculture
- vertical/ urban farming
- conventional agriculture

Specifications:

Input no.1 pH/ Redox	
Connection:	BNC waterproof
Measuring range:	-2.00 ... +16.00 pH (±0.25 % FS @ 25 °C) or -1500 ... +1500 mV Redox voltage (±0.25 % FS @ 25 °C)
Temperature:	-10.0 ... +150.0 °C (Pt1000) ±0.25 % FS connection via 4 mm banana or O_2 / LF sensor
Temperature compensation:	Manual, automatic
Input no. 2	
Connection:	7-pole bayonet jack
Temperature:	-10.0 ... +110.0 °C (NTC or Pt1000) measuring range (Pt 1000) -10.0 ... +110.0 °C measuring range (NTC 10k) -10.0 ... +110.0 °C (integrated in O_2 / LF sensor)
Conductivity	
Measuring range:	0 µS / cm ... 500 mS / cm (±0.5 % FS @ 25 °C) Salinity/PSU: 0.0 ... 70.0 g/kg Cell constant 0.3 ... 1.6000 1/cm
Temperature compensation	Off, linear (0.300 ... 3.000 %/K), NLF (according to DIN EN 27888), Reference temperature: 20 °C or 25 °C (adjustable)
Dissolved oxygen	
Measuring range:	Oxygen saturation: 0.0 ... 500.0 % sat Oxygen concentration: 0.0 ... 50.0 mg/l Oxygen partial pressure: 0 ... 1013 mbar O_2 (accuracy depending on sensor and calibration with flow >20 cm/s, add. ±1.5 % FS @ 25 °C, 100 % sat, O_2)

MULTISENSOR WATER ANALYSIS HANDHELD MEASURING DEVICE

A multi-channel measuring device was developed based on our proven G 1000/ GMH 3000/ GMH 5000 individual-parameter devices. This combines multi-channel measurement with the proven housing of the GMH 5000 series.
Numerous applications demand simultaneous measurement of multiple measured variables. For example, simultaneous measurement of pH and oxygen is desired when monitoring bodies of water – the G 7500 determines both measurements in one device. A very interesting application area for the combination of pH and conductivity is the current trend market of vertical farming/ urban farming.
A daylight-compatible backlit graphic display is used for optimal visualization. At the same time, simple measurement and easy calibration are guaranteed with the plain text display with various language settings. There are no longer any limitations on the measurement recording, because the buffer size of the data logger is very large. Our proven sensor connections are installed in the devices. As a result, system costs are kept in check and the flexibility of the free sensor selection adapted to your emphases is guaranteed.

Temperature compensation:	Automatically via connected sensor
Pressure compensation	Manual, automatic via int. sensor: 500 ... 1100 hPa ±4 hPa
Salinity compensation:	Manual PSU 0 ... 70 g/kg
Additional functions:	Text-base user guidance (DE/EN), Charging via USB jack (3 x AAA batteries integrated, interchangeable)
Display:	LCD (180 x 128 pixel), monochromatic, adjustable backlighting
Interface:	USB 2.0, Micro USB jack
Calibration:	pH 1...5 point calibration (PHL buffer, DIN buffer) LF cell constant O_2: Water-saturated air
Data logger:	Yes (8 GB with FAT file system)
Alarm:	Yes, acoustic alerting (horn) Visual (red LCD background)
Power supply:	3 x NiMh AAA (max. 750 mAh)
Current requirement:	On: approx. 75 mA in operation; Off: approx. <0.1 mA
Housing:	Impact-resistant ABS, with stand/hanging bracket
Protection rating:	IP67
Dimensions:	160 x 86 x 37 mm (H x W x D) incl. protection cover
Weight:	300 g incl. battery and protection cover
Scope of supply:	Device with 3 AAA batteries, quick reference guide, operating manual and test report as pdf on mass storage device

Accessories and spare parts:

GWO5610-L04
Art. no. 607764
replacement sensor for dissolved oxygen, GMH 56 & GMH 75, Sensor with 4 m cable

GWOK 02
Art. no. 608012
Spare membrane head for GWO 5610

KOH 100
Art. no. 603356
spare electrolyte KOH, 100 ml

GCAL 3610
Art. no. 611371
Calibration vessel for dissolved oxygen sensors with Ø 12 mm

LF452-L02
Art. no. 608773
Conductivity cell for GMH 5400 / G 7500-Series, 4-pole graphite measuring cell, Ø 16 mm

LF400-L02
Art. no. 602968
Conductivity cell for GMH 5400 / G 7500-Series, 4-pole graphite measuring cell

GKL-100
Art. no. 601396
Conductivity control solution, Control solution 1413 µs/cm, 100 ml bottle

GKL-102
Art. no. 601400
Conductivity control solution, Control solution 50 ms/cm, 100 ml bottle

GE117-BNC-L02
Art. no. 600729
pH-electrode incl. Pt1000, pressure resistant, BNC plug

GE125-BNC-L02
Art. no. 600731
Waterproof pH electrode with Pt1000 to 4 mm banana

PHL 4
Art. no. 601369
pH buffer solution, ready to use, Buffer solution pH 4 in 250 ml dosing bottle

PHL 7
Art. no. 601371
pH buffer solution, ready to use, Buffer solution pH 7 in 250 ml dosing bottle

PHL 10
Art. no. 601373
pH buffer solution, ready to use, Buffer solution pH10 in 250 ml dosing bottle

GRL100
Art. no. 601422
HCL/Pepsin cleaning solution, 100 ml

GKK 5001
Art. no. 611606
kompakter Koffer für Feldeinsatz 395 x 295 x 106 mm (W x H x D)