MULTISENSOR WATER ANALYSIS PORTABLE INSTRUMENT

HIGHLIGHTS:

- simultaneous measurement of pH / oxygen or pH / conductivity and the associated temperatures
- built-in galvanic isolation allows simultaneous measuring – with inexpensive standard sensors
- the display enables convinient reading of several values at the same time, as well as the course of the measured values in diagram form
- The data logger can be accessed directly via USB – with standard smart-phone cable or software
- simple and convenient battery charging via USB port

G 7500

Item No. 414318

MultiSensor water analysis portable instrument

G 7500-PH / O2

Item No. 414787

MultiSensor water analysis portable instrument set for pH and oxygen
device including Micro USB / USB-A 1.8 m communication and
charging cable in case GKK 2021
pH electrode GE 135-L0$_2$, PHL 4, PHL 7, PHL 10, KCL3M, GRL 100
O_2 sensor GWO 5610-L02, replacement GWOK02, GSKA 3610, KOH, 2 pipettes, vinyl gloves

G 7500-PH / CON

Item No. 414788

MultiSensor water analysis portable instrument set for pH and conductivity
device including Micro USB / USB-A 1.8 m communication and
charging cable in case GKK 2021
pH sensor GE 135-L0$_2$, PHL 4, PHL 7, PHL 10, KCL3M, GRL 100
Conductivity measuring cell LF 425-L02

G 7500-PH / CON / O2

Item No. 414789

MultiSensor water analysis portable instrument set for pH, conductivity and oxygen
device including Micro USB / USB-A 1.8 m communication and
charging cable in case GKK 2021
pH electrode GE 135-L0$_2$, PHL 4, PHL 7, PHL 10, KCL3M, GRL 100
Conductivity sensor LF 425-L02 O_2sensor GWO 5610-L02, replacement GWOK02, GSKA 3610, KOH, 2 pipettes, vinyl gloves

GENERAL:

The G 7500 is a convenient multi-channel water analyzer for the simultaneous measurement of two measured variables and the associated one temperature.
All the essentials can be combined electrochemical measurements:
- pH / ORP + conductivity / salinity
- pH / Redox + dissolved Oxygen

The illuminated graphic display shows all parameters in plain text German or English, other languages can be integrated (Charges on request). Large display or measured value diagrams can also be displayed . The use of our proven standard connectors ensures that you can use our standard sensors – consciously without surchage through complex technology in the sensors. Thus, the device is impressive due to the performance and the affordable system price (see also our sets). The modern device platform uses the usual USB cable for charging the internal batteries (interchangeable) and to access the data logger without any additional software or adapters are necessary. The logger is comfortably accessed like a USB 2.0 data stick.

APPLICATIONS:

You have applications such as water monitoring, neutralization processes or agricultural surveys neatly under control.
- Water monitoring
- Fresh water treatment
- Sewage treatment plants
- Fish farming and aquaculture
- Vertical / urban farming
- Conventional agriculture

TECHNICAL SPECIFICATIONS:

Input no. 1 pH / redox	
Connection:	BNC waterproof
Measuring range:	-2.00..+16.00 pH (± 0.25 % FS @ 25 °C) othe -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, alternatively via O_2 / LF sensor
Temperature compensation:	Automatically via connected sensor
Input no. 2	
Connection:	7-pole bayonet socket
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 partialpressure: 0 ..1013 mbar O_2 (Accuracy depending on the sensor and Calibration, with flow> 20 cm / s, plus ± 1.5 % FS @ 25 °C, 100 % sat. O_2
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-based user interface (DE / EN), charging via USB socket (3 x AAA rechargeable batteries integrated, interchangeable)

MULTISENSOR WATER ANALYSIS PORTABLE INSTRUMENT

Based on our proven single parameter instruments G 1000 / GMH 3000 / GMH 5000 a multi-channel measuring instrument has been developed. This combines the multi-channel measurement in the proven housing of the GMH 5000 series.

Numerous applications require the simultaneous measurement of several measurands. For example, the simultaneous measurement of pH and oxygen is desired in water monitoring – the G 7500 determines both measured values in one device.

One of the very interesting areas of application, the combination of pH and conductivity, are the current trend markets of vertical farming / Urban farming.

A backlit graphic display suitable for daylight is used for optimal visualization. At the same time, simple measurement and comparison are guaranteed thanks to the plain text display that can be converted into different languages. There are no longer any limitations in the recording of measured values, as the memory size of the data logger is very large.

Our proven sensor connections are consciously built into the devices. This keeps the system costs manageable and ensures the flexibility of free sensor selection to match your focus.

Display:	LCD (180 x 128 pixels), monochrome, adjustable Backlight
Interface:	USB 2.0, micro USB socket
Calibration:	pH 1..5 point calibration (PHL buffer, DIN buffer) LF cell constant O_2: air saturated with water
Data logger:	Yes (8 GB with FAT file system)
Alarm:	Yes, Acoustic alarm (sounder) visual (red LDC background)
Power supply:	3 x NiMh AAA (max. 750 mAh)
Power consumption:	On: approx. 75 mA in operation; Off: approx. 0.1 mA
Housing:	impact-resistant ABS, with stand-up / hanging bracket
Protection class:	water protected, IP67
Dimensions:	160 x 86 x 37 mm (H x W x D) including protective cover
Weight:	300 g including battery and protective cover
Scope of delivery:	Device with 3 AAA rechargeable batteries, quick reference guide, operating manual and test report as pdf on mass storage device

ACCESSORIES AND SPARE PARTS:

GWO5610-L02
Item No. 607386
Spare sensor for dissolved oxygen, GMH 56 & GMH 75, sensor with 2 m cable

GWO5610-L04
Item No. 607764
Spare dissolved oxygen sensor, GMH 56 & GMH 75, Sensor with 4 m cable

GWOK 02
Item No. 608012
Spare membrane head for GWO 5610

KOH 100
Item No. 603356
KOH spare electrolyte, 100 ml

GCAL 3610
Item No. 611371
Calibration bottle for gel. Oxygen sensors with Ø 12 mm

LF425-L02
Item No. 608773
Conductivity measuring cell, 7-pole, waterproof bayonet connection, for GMH 5400 / G 7500 series

LF400-L02
Item No. 602968
Conductivity measuring cell, 7-pole, waterproof bayonet connection, for GMH 5400 / G 7500 series

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

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

GE117-BNC-L02
Item No. 600730
pH electrode with Pt1000, pressure-resistant, BNC connector

GE135-BNC-L02
Item No. 483292
Waterproof pH electrode with Pt1000, BNC connector

PHL 4
Item No. 601369
Ready-to-use pH buffer solution, Buffer solution pH 4 in 250 ml dosing bottle

PHL 7
Item No. 601371
Ready-to-use pH buffer solution, Buffer solution pH 7 in 250 ml dosing bottle

PHL 10
Item No. 601373
Ready-to-use pH buffer solution, Buffer solution pH 10 in 250 ml dosing bottle

GRL100
Item No. 601422
HCL / Pepsin cleaning solution, 100 ml

HD-22-3
Item No. 700040
Freely positionable laboratory sensor holding arm for sensors Ø12mm

GKK 5001
Item No. 611606
Case for GMH 5000 / G7500 series water analysis / universal, 395 x 295 x 106 mm (W x H x D)

GKK 2021
Item No. 414760
Device case 2 levels, for 1x GMH 5500/7500 and 3 PHL solutions, 450 x 360 x 140 mm (W x H x D)