

PRECISE CONDUCTIVITY MEASURING DEVICE



DURABLE AND AFFORDABLE

**G 1410**

Art. no. 610006

Precise wide-range measuring device for conductivity of up to 100 mS/cm, incl. graphite measuring cell

G 1420

Art. no. 610007

High-resolution measuring device for the purest water with up to 100 µS/cm, incl. stainless steel measuring cell

General:

The primary focus in the development of the new GMH 1000 series was placed on the essential functions of the measurement technology. Pure measurement with a focus on precision, speed and reliability packaged in a compact housing distinguish an impressive price/performance ratio, Made in Germany.

The new handheld measuring devices also impress with their ergonomic design, dust and water-protected design in accordance with IP 65/67 and the illuminated display. The compact conductivity measuring device as a G 1410 is a precise and durable wide-range measuring cell for universal use from DI water to salt water. As a G 1420, it has a specialised measuring cell for high-resolution clean/cleanest water applications.

Application:

Freshwater and salt water aquariums, reverse osmosis and similar filters, cleaning processes, cooling/lubricating processes, plant cultivation and agriculture; laboratories, quality assurance, service

HIGHLIGHTS:

- Modern and functional housing
- Outstanding price/performance ratio
- 3-line display / overhead display at the push of a button
- Backlighting
- Waterproof (IP67)
- Durable, long battery life
- High-quality measuring cell for wider range of application included
- rapid measurement detection

Display:

3-line unit with battery status indicator, background light, protected by an unbreakable pane, overhead display at the push of a button

Operation:

4 long-lasting, easy-to-operate buttons

Additional functions:

automatic measuring range shifting, automatic temperature compensation

Display unit environment:

-20 ... +50 °C, 0 ... 95 % RH

Power supply:

2 x AA battery, >1000 h operating time

Protection rating:

IP65 / IP67

Housing:

Break-proof ABS housing

Dimensions:

108 x 54 x 28 mm (H x W x D) without sensor connection

Weight:

approx. 200 g (G 1410)
approx. 230 g (G 1420)

Scope of supply:

Device with measuring cell, calibration log, 2 x battery, manual

Accessories and spare parts:**GKL 100**

Art. no. 601396

Conductivity control solution (100 ml bottle with 1413 µS/cm, in accordance with DIN EN 27888)

GKL 101

Art. no. 601398

Conductivity control solution (250 ml bottle with 84 µS/cm)

GKL 102

Art. no. 601400

Conductivity control solution (100 ml bottle with 50 mS/cm)

HD-22-3

Art. no. 700040

Freely positionable, flexible laboratory electrode holding arm. For probes with Ø 12 mm.

GWZ-01

Art. no. 603499

Flow-through vessel (for measuring cells with Ø 12 mm, hose connection Ø 6 mm)

ST-G1000

Art. no. 611373

Device protection bag with 1 round cut-out

GB AA

Art.-Nr: 610049

Spare battery AA (2 batteries required)

Specifications:	G 1410	G 1420
	Wide-range measuring device, incl. graphite measuring cell	Cleanest water version, incl. stainless steel measuring cell
Measurement:	Conductivity, salinity, TDS	conductivity, specific
Measuring range:	With automatic measuring range shifting	
Conductivity:	0 ... 2000 µS/cm 0.00 ... 20.00 mS/cm 0.0 ... 100.0 mS/cm	0.000 ... 2.000 µS/cm 0.00 ... 20.00 µS/cm 0.0 ... 100.0 µS/cm
Specific resistance:	--	0.0100 ... 0.2000 MOhm*cm 0.010 ... 2.000 MOhm*cm 0.01 ... 20.00 MOhm*cm
TDS:	0 ... 2000 mg/l	--
Salinity (PSU):	0.0 ... 50.0 g/kg water	--
Temperature:	-5.0 ... +105.0 °C	-5.0 ... +105.0 °C
Accuracy		
Conductivity:	±0.5 % of m.v. ±0.5 % FS	Typ. ±1 % of m.v. ±0.5 % FS
Temperature:	±0.3 °C	±0.3 °C
Temperature compensation:	off: deactivated nLF: non-linear, according to EN 27888	off: deactivated nLF: non-linear, according to EN 27888 LIN: linear with variable coefficients NaCl: For weak NaCl solutions in accordance with EN 60746-3
Reference temperatures:	20 and 25 °C	20 and 25 °C
Sensors / measuring inputs:	permanently connected 2-pole measuring cell with integrated temperature sensor	
Measuring cell:	2-pole measuring cell, Ø 12 mm (graphite), cable 1.2 m (others available for surcharge)	2-pole measuring cell, Ø 12 mm (stainless steel 1.4404, 1.4435), cable 1.2 m (others available for surcharge)
Range of application:	-5 ... +80 °C (short-term 100 °C)	