

**Product Information**

**G 1410/1420**

# Conductivity Measuring Device G 1410 / G 1420



- **Made in Germany**
- **Modern and functional housing**
- **Outstanding price/performance ratio**
- **Waterproof (IP65 / IP67)**
- **3-line display / overhead display at the push of a button**
- **Backlighting**
- **Durable, long battery life**
- **Measurement accuracy with high-precision measuring cells with temperature measurement**
- **Hold function for freezing measured values**
- **Min/Max function for minimum and maximum recorded measured value**

## Features

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

The devices also have impressive ergonomics, dust and water protection according to IP 65/67 and display backlighting.

**The G 1410** is a universal wide-range conductometer with durable 2-pole measuring cell for measurements in applications from deionised water (purification processes, aquarium applications) to sea water with up to 100.0 mS/cm.

**The G 1420** is equipped with a stainless steel purest water measuring cell and specialised for high-resolution measurement of purest water, alcohol, solvents and similar liquids. The resolution is up to 0.001 µS/cm.

The measuring devices can be used in aquarium, aquaculture, plant cultivation, pharmaceutical, laboratory, quality assurance and service (e.g. osmosis systems) applications.

## Technical data

	G 1410	G 1420
Measuring	Wide-range meas. device, incl. graphite meas. cell	Cleanest water version, incl. stainless steel measuring cell
Measuring ranges	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		In MOhm*cm 0.0100..0.2000 0.010..2.000 0.01..20.00
TDS	0..2000 mg/l	
Salinity (PSU)	0.0..50.0 g/kg	
Temperature		-5.0..+105.0 °C
Accuracy		
Conductivity	±0.5 % of meas. v ±0.5 % FS	Typ. ±1% of m. value ±0.5 %FS
Temperature	±0.3 °C	±0.3 °C
Temperature compensation	Off: deactivated nLF: non-linear, acc. to EN 27888	Off: deactivated nLF: non-linear, acc. 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 meas. cell, Ø 12 mm graphite Cable 1.2 m (others avail. for additional charge)	2-pole measuring cell, Ø 12 mm (stainless steel 1.4404, 1.4435) Cable 1.2 m (others avail. for add. charge)
Range of application	-5..+80 °C (temporarily 100 °C)	
Display	3-line with battery status indicator, background light, protected by an break-proof pane, overhead display at key press	
Operation	4 long-lasting, easy-to-operate buttons	
Additional functions	Automatic measuring range shifting, automatic temperature compensation	
Display unit environment	-20..+50 °C	
Current supply	2 x AA battery, >1000 h operating time	
Ingress protection	IP 65 / 67	
Housing	Break-proof ABS housing	
Dimensions	108 x 54 x 28 mm (H x W x T) without sensor	
Weight	approx. 200 g (G 1410) approx. 230 g (G 1420)	

**Product Information**

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**Measuring cell**



Measuring cell G 1410, wide-range 2-pole graphite: Low-maintenance and applicable up to 100 mS/cm



Measuring cell G 1420, purest water 2-pole stainless steel/Peek: High-resolution up to 0.001 µS/cm.

**Scope of delivery**

- Dust-proof and waterproof handheld measuring device according to IP 65/67
- Permanently connected measuring cell:  
**G 1410: 2-pole graphite measuring cell up to 100 mS/cm**  
**G 1420: 2-pole stainless steel/Peek measuring cell up to 100 µS/cm**
- Test report
- 2x AA battery
- Operating manual

**Ordering code**

G 1410 -  1.

1.	Option
	Device, measuring cell LF 202, 2-pole graphite, permanently connected
1002	Device, measuring cell LF 202, 2-pole graphite, permanently connected, in case GKK1002

G 1420 -  1.

1.	Option
	Device, measuring cell LF 200 RW, 2-pole stainless steel/Peek, permanently connected
1002	Device, measuring cell LF 200 RW, 2-pole stainless steel/Peek, permanently connected, in case GKK 1002

**Accessories**

**GKL 100** (article no. 601396)  
Conductivity control solution (100 ml bottle with 1413 µS / cm, in accordance with DIN EN 27888)

**GKL 101** (article no. 601398)  
Conductivity control solution (250 ml bottle with 84 µS / cm)

**GKL 102** (article no. 601400)  
Conductivity control solution (100 ml bottle with 50 mS / cm)

**HD-22-3** (article no. 700040)  
Freely positionable, flexible laboratory electrode holding arm. For probes with Ø 12 mm

**GWZ-01** (article no. 603499)  
Glass flow vessel (for measuring cells Ø 12 mm, hose connection Ø 6 mm)

**ST-G1000** (article no. 611373)  
Device protection bag with 1 round cut-out

**GB AA** (article no. 610049)  
Spare battery AA (2 batteries required)

**Case**

**GKK 1001** (article no. 611604)  
Compact storage of the device

**GKK 1002** (article no. 411907)  
With recesses for a device with sensor of G1400/G1500/G1600 series. Additional recess for temperature sensor GF1T (235 x 185 x 48 mm)

- Additional accessories on request or in our catalogue

**Additional accessories**

**ISO calibration certificates**

**ISO-WPL3** (article no. 602622)  
ISO calibration certificate with 3 test points:  
~147 µS/cm, ~1413 µS/cm, ~12.90 mS/cm

**ISO-WPL3-RW** (article no. 602624)  
ISO calibration certificate with 3 test points:  
~2.50 µS/cm, ~7.00 µS/cm, ~15.00 µS/cm