

**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	Conductivity, salinity, TDS	Conductivity, specific resistance, NaCl
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
Oxygen	±1.5 % of meas. value	± 02 mg/l or -> 0.2
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**

**G 1410/1420**

**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.	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.	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