

Leitfähigkeits-Messgerät G 1410/ G 1420

- 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
- Made in Germany



ECO 523

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.

ECO 522 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.

ECO 523 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 $0.001 \,\mu\text{S/cm}$.

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



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Technical data

Technical data	ECO 522	ECO 523			
	Wide-range meas. device, incl.	Cleanest water version, incl.			
	graphite meas. cell	stainless steel measuring cell			
Measuring	Conductivity, salinity, TDS	Conductivity, specific resistance,			
		NaCl			
Measuring ranges	With automatic measuring range shifting				
	02000 μS/cm	0,0002,000 μS/cm			
Canadinatinita	0,0020,00 mS/cm	0,0020,00 µS/cm			
Conductivity	0,0100,0 mS/cm	0,0100,0 μS/cm			
		In MOhm*cm			
Specific resistance		0,01000,2000			
•		0,0102,000			
		0,0120,00			
TDS	02000 mg/l				
Salinity (PSU)	0,050,0 g/kg				
Temperature Accuracy					
Conductivity	±0,5 % of meas. v.	Typ. ±1% of m. value			
Conductivity	±0,5 % FS	±0,5 %FS			
Temperature	±0,3 °C	±0,3 °C			
Oxygen					
	Off: deactivated	Off: deactivated			
	nLF: non-linear,	nLF: non-linear,			
Temperature compensation	acc. to EN 27888	acc. to EN 27888			
remperature compensation		LIN: linear with variable coefficients			
		NaCI: For weak NaCI solutions in			
		accordance with EN 60746-3			
Reference temperatures	20 und 25 °C	20 und 25 °C			
Sensors / measuring inputs	Permanently connected 2-pole measuring cell with integrated				
	-	ature sensor			
	2-pole meas. cell,	2-pole measuring cell,			
	Ø 12 mm graphite	Ø 12 mm (stainless steel			
Measuring cell	Cable 1.2 m (others avail. for	1.4404,1.4435))			
	additional charge)	Cable 1.2 m (others avail. for			
		add. charge)			
Range of application	-5+80 °C (te	mporarily 100 °C)			
<u> </u>		cator, background light, protected			
Display		overhead display at key press			
Operation	4 long-lasting, easy-to-operate				
Additional functions	Automatic measuring range shifting, automatic temperature compensation				
Display unit environment	-20+50 °C	,			
Current supply		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)				
- 3	approx. 230 g (G 1420)				
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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 $0.001 \,\mu\text{S/cm}$

Scope of delivery

- Dust-proof and waterproof handheld measuring device according to IP 65/67
- Permanently connected measuring cell:
 ECO 522: 2-pole graphite measuring cell up to 100 mS/cm
 ECO 523: 2-pole stainless steel/Peek measuring cell up to 100 µS/cm
- Test report
- 2x AA battery
- Operating manual

Bestellcodes

G1410 - _______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

G1420 - 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



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Standard-Artikel

ECO 522-L01 Waterproof universal conductivity measuring device

Set-Option: Device, measuring cell LF 202, 2 pole graphite, fix mounted

Measuring cell: 2-pole graphite measuring cell

Scope of delivery: Device incl. measuring cell, manual, battery, test protocol Range of application: Device: -20 ... +50 °C, measuring cell: -5 ... +80 °C

(short time 100 °C) Article no. 486758

ECO 522-1002-L01 Waterproof universal conductivity measuring device

Set-Option: Device, measuring cell LF 202, 2 pole graphite, fix mounted, in

suitcase GKK1002

Measuring cell: 2-pole graphite measuring cell

Scope of delivery: Device incl. measuring cell, manual, battery, test protocol Range of application: Device: -20 ... +50 °C, measuring cell: -5 ... +80 °C (short time 100 °C)

Article no. 487055

ECO 522-WPL3-L01 Waterproof universal conductivity measuring device

Set-Option: Device, measuring cell LF 202, 2 pole graphite, in suitcase

GKK1002, factory calibration WPL3

Measuring cell: 2-pole graphite measuring cell

Scope of delivery: Device incl. measuring cell, manual, battery, test protocol Range of application: Device: -20 ... +50 °C, measuring cell: -5 ... +80 °C (short time 100 °C)

Article no. 487059

ECO 523-L01 high resolution ultrapure water conductivity measuring device

Set-Option: Device, measuring cell LF 200 RW, 2 pole stainless steel, fix

mounted

Measuring cell: 2-pole stainless steel measuring call

Scope of delivery: Device incl. measuring cell, manual, battery, test protocol Range of application: Device: -20 ... +50 °C, measuring cell: -5 ... +80 °C (short time 100 °C)

Article no. 486760

ECO 523-1002-L01 high resolution ultrapure water conductivity measuring device

Set-Option: Device, measuring cell LF 200 RW, 2 pole stainless steel, fix

mounted, in suitcase GKK1002

Measuring cell: 2-pole stainless steel measuring call

Scope of delivery: Device incl. measuring cell, manual, battery, test protocol Range of application: Device: -20 ... +50 °C, measuring cell: -5 ... +80 °C (short time 100 °C)

Article no. 487056

ECO 523-WPL3-RW-L01 high resolution ultrapure water conductivity measuring device

Set-Option: Device, measuring cell LF 200 RW, 2 pole stainless steel, in

suitcase GKK1002, factory calibration WPL3-RW Measuring cell: 2-pole stainless steel measuring call

Scope of delivery: Device incl. measuring cell, manual, battery, test protocol Range of application: Device: -20 ... +50 °C, measuring cell: -5 ... +80 °C (short time 100 °C)

Article no. 487058

ECO 522_ECO523 4/5 V1 0- 02/2024



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GKL 100 Conductivity control solution (100 ml bottle

with 1413 μS / cm, in accordance with DIN EN 27888) article no. 601396

GKL 101 Conductivity control solution (250 ml bottle

with $84 \,\mu\text{S} \,/\,\text{cm}$) article no. 601398

GKL 102 Conductivity control solution (100 ml bottle

with 50 mS / cm) article no. 601400

HD-22-3 Freely positionable, flexible laboratory electrode holding arm.

For probes with Ø 12 mm article no. 700040

GWZ-01 Glass flow vessel (for measuring cells Ø 12 mm,

hose connection Ø 6 mm) article no. 603499

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

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

Case:

GKK 1001 Compact storage of the device article no. 611604

GKK 1002 With recesses for a device with sensor of

G1400/G1500/G1600 series. Additional recess for temperature sensor GF1T

(235 x 185 x 48 mm) article no. 411907

Additional accessories

ISO calibration certificates

ISO-WPL3 (article no. 602622)

ISO calibration certificate with 3 test points:

 \sim 147 µS/cm, \sim 1413 µS/cm, \sim 12.90 mS/cm

ISO-WPL3-RW (article no. 602624)

ISO calibration certificate with 3 test points:

 $\sim 2.50 \,\mu\text{S/cm}, \sim 7.00 \,\mu\text{S/cm}, \sim 15.00 \,\mu\text{S/cm}$

Further available accessories can be found on the Senseca website.