

Conductivity measuring device ECO 522 - ECO 523

- 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 µS/cm.

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



Conductivity measuring device ECO 522 - ECO 523

Technical data

	500 500	FCO 500
	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 me	easuring range shifting
	02000 µS/cm	0,0002,000 µS/cm
Conductivity	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
TDC		0,0120,00
TDS	02000 mg/l	
Salinity (PSU)	0,050,0 g/kg	105.000
Temperature Accuracy		+105,0 °C
Conductivity	±0,5 % of meas. v.	Typ. ±1% of m. value
	±0,5 % FS	±0,5 %FS
Temperature	±0,3 °C	±0,3 °C
Oxygen	±1.5 % of meas. value ± 02 mg/l or ->	
	Off: deactivated	Off: deactivated
	nLF: non-linear,	nLF: non-linear,
Temperature compensation	acc. to EN 27888	acc. to EN 27888
		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 temperature sensor	
	2-pole meas. cell,	2-pole measuring cell,
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		mporarily 100 °C)
Display	3-line with battery status indic	cator, background light, protected
Display	by an break-proof pane, o	overhead display at key press
Operation	4 long-lasting, easy-to-operate	
Additional functions	5 5	shifting, automatic temperature ensation
Display unit environment	-20+50 °C	
Current supply	2 x AA battery, >1	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)	



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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 $\mu S/cm$

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

G1420



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



Conductivity measuring device ECO 522 - ECO 523

Standard-Artikel

ECO 522-L01	Waterproof universal conductivity measuring device Set-Option: Device, measuring cell LF 202, 2 pole graphic Measuring cell: 2-pole graphite measuring cell Scope of delivery: Device incl. measuring cell, manual, ba Range of application: Device: -20 +50 °C, measuring cell (short time 100 °C)	attery, test protocol
ECO 522-1002-L01	Waterproof universal conductivity measuring device Set-Option: Device, measuring cell LF 202, 2 pole graphic suitcase GKK1002 Measuring cell: 2-pole graphite measuring cell Scope of delivery: Device incl. measuring cell, manual, ba Range of application: Device: -20 +50 °C, measuring cell (short time 100 °C)	attery, test protocol
ECO 522-WPL3-L01	Waterproof universal conductivity measuring device Set-Option: Device, measuring cell LF 202, 2 pole graphi GKK1002, factory calibration WPL3 Measuring cell: 2-pole graphite measuring cell Scope of delivery: Device incl. measuring cell, manual, ba Range of application: Device: -20 +50 °C, measuring cell (short time 100 °C)	attery, test protocol
ECO 523-L01	high resolution ultrapure water conductivity measuring Set-Option: Device, measuring cell LF 200 RW, 2 pole st mounted Measuring cell: 2-pole stainless steel measuring call Scope of delivery: Device incl. measuring cell, manual, ba Range of application: Device: -20 +50 °C, measuring cell (short time 100 °C)	ainless steel, fix attery, test protocol
ECO 523-1002-L01	high resolution ultrapure water conductivity measuring Set-Option: Device, measuring cell LF 200 RW, 2 pole st mounted, in suitcase GKK1002 Measuring cell: 2-pole stainless steel measuring call Scope of delivery: Device incl. measuring cell, manual, ba Range of application: Device: -20 +50 °C, measuring cell (short time 100 °C)	ainless steel, fix attery, test protocol
ECO 523-WPL3-RW-L01	high resolution ultrapure water conductivity measuring Set-Option: Device, measuring cell LF 200 RW, 2 pole st suitcase GKK1002, factory calibration WPL3-RW Measuring cell: 2-pole stainless steel measuring call Scope of delivery: Device incl. measuring cell, manual, ba Range of application: Device: -20 +50 °C, measuring cell (short time 100 °C)	ainless steel, in attery, test protocol



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Accessories			
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 μS / 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 holdir	y 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 \emptyset 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: ~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

Further available accessories can be found on the Senseca website.