Conductivity Meter 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
- Backlight
- 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
- ECO 523 for DI / filtered / ultra-pure water



ECO 523

Features

The primary focus in the development of the ECO-Line 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 deionized 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 Meter ECO 522 / ECO 523



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		easuring range shifting	
	0 2000 µS/cm	0.000 2.000 µS/cm	
Conductivity	0.00 20.00 mS/cm	0.00 20.00 µS/cm	
	0.0 100.0 mS/cm	0.0 100.0 µS/cm	
		In MOhm*cm	
Specific resistance		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 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,	
NA : 11	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	emporarily 100 °C)	
		cator, background light, protected	
Display	by break-proof pane, 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 (ECO 522)		
		approx. 230 g (ECO 523)	

Conductivity Meter ECO 522 / ECO 523



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

ORDER CODES

ECO522

	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

ECO523

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



Conductivity Meter ECO 522 / ECO 523

STANDARD ARTICLES

ECO 522-L01	Waterproof universal conductivity measuring device Set-Option: Device, measuring cell LF 202, 2 pole graphite, 1 Measuring cell: 2-pole graphite measuring cell Scope of delivery: Device incl. measuring cell, manual, batte Range of application: Device: -20 +50 °C, measuring cell: - (short time 100 °C)	ry, test protocol
ECO 522-1002-L01	Waterproof universal conductivity measuring device Set-Option: Device, measuring cell LF 202, 2 pole graphite, 1 suitcase GKK1002 Measuring cell: 2-pole graphite measuring cell Scope of delivery: Device incl. measuring cell, manual, batte Range of application: Device: -20 +50 °C, measuring cell: - (short time 100 °C)	ry, test protocol
ECO 522-WPL3-L01	Waterproof universal conductivity measuring device Set-Option: Device, measuring cell LF 202, 2 pole graphite, i GKK1002, factory calibration WPL3 Measuring cell: 2-pole graphite measuring cell Scope of delivery: Device incl. measuring cell, manual, batte Range of application: Device: -20 +50 °C, measuring cell: - (short time 100 °C)	ry, test protocol
ECO 523-L01	high resolution ultrapure water conductivity measuring dev Set-Option: Device, measuring cell LF 200 RW, 2 pole stainl mounted Measuring cell: 2-pole stainless steel measuring call Scope of delivery: Device incl. measuring cell, manual, batte Range of application: Device: -20 +50 °C, measuring cell: - (short time 100 °C)	ess steel, fix ry, test protocol
ECO 523-1002-L01	high resolution ultrapure water conductivity measuring dev Set-Option: Device, measuring cell LF 200 RW, 2 pole stainl mounted, in suitcase GKK1002 Measuring cell: 2-pole stainless steel measuring call Scope of delivery: Device incl. measuring cell, manual, batte Range of application: Device: -20 +50 °C, measuring cell: - (short time 100 °C)	ess steel, fix ry, test protocol
ECO 523-WPL3-RW-L01	high resolution ultrapure water conductivity measuring dev Set-Option: Device, measuring cell LF 200 RW, 2 pole stainl suitcase GKK1002, factory calibration WPL3-RW Measuring cell: 2-pole stainless steel measuring call Scope of delivery: Device incl. measuring cell, manual, batte Range of application: Device: -20 +50 °C, measuring cell: - (short time 100 °C)	ess steel, in ry, test protocol

Conductivity Meter ECO 522 / ECO 523



ACCESSORIES

GKL 100	Conductivity control solution (100 ml bottle with 1413 μS / cm, in accordance with DIN EN 27888)	Art no. 601396
GKL 101	Conductivity control solution (250 ml bottle with 84 μS / cm)	Art no. 601398
GKL 102	Conductivity control solution (100 ml bottle	
	with 50 mS / cm)	Art no. 601400
GWZ-01	Glass flow vessel (for measuring cells Ø 12 mm,	
	hose connection \emptyset 6 mm)	Art no. 603499
ST-G1000	Device protection bag with 1 round cut-out	Art no. 611373
GB AA	Spare battery AA (2 batteries required)	Art no. 610049
Case:		
GKK 1001	Compact storage of the device	Art no. 611604
GKK 1002	With recesses for a device with sensor, additional recess for sensor GF1T (235 x 185 x 48 mm)	rtemperature
		Art no. 411907

ADDITIONAL ACCESSORIES

ISO calibration certificates

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

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

Further available accessories can be found on the Senseca website.