

Family datasheet

Conductivity meter / EC-Meter ECO 521



- Carefree precise measurement up to 5000 $\mu\text{S}/\text{cm}$
- Display also in EC (=mS/cm) CF or TDS(=mg/l)
- Modern and functional housing
- Excellent price-performance ratio
- Long term stable and fast titanium measuring cell
- 3-line illuminated display / overhead display at the push of a button
- Waterproof (IP67)
- Robust, long battery life
- Made in Germany

Features

The primary focus in the development of the new G 1000 series was placed on the essential functions of the measurement technology - a sensor tailor-made for the applications is at the center of attention!

Precision, speed and reliability, packed in a compact and water-protected housing make the device a reliable partner of service and craftsmen, and they support the green thumb of plant growers and agriculturists, Made in Germany.

The measuring devices with the high-precision sensor can be used up to 5000 $\mu\text{S}/\text{cm}$ and are therefore cost-optimized professional devices for use in the areas

- aquaculture, hydroponics, plant breeding
- Water treatment (e.g. osmosis plants)
- Boiler feed water / heating construction.
- and many more...

The long-term stable titanium measuring cell can be calibrated with GKL 100 calibration solution, the integrated temperature sensor compensates temperature changes very quickly and accurately.

The ECO 521 - a reliable professional device for daily use as an alternative / upgrade to entry-level measuring sticks!

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Technical data

ECO 521 EC-Meter incl. Titanium electrode

Measurement	Conductivity, EC, TDS, Temperatur
Conductivity	0...5000 $\mu\text{S}/\text{cm}$
EC	0...5,000 EC (equals mS/cm)
CF	50,00 CF (equals 10 x EC)
TDS	0...2000 mg/l (ppm) Factor adjustable, e.g. to commonly used 0.500 or 0.700
Temperature Accuracy	-5,0...+80,0 $^{\circ}\text{C}$
Conductivity up to 2000 $\mu\text{S}/\text{cm}$:	typ. $\pm 1\%$ v. of value $\pm 0,5\%$ FS
Temperatur	$\pm 0,3\text{ }^{\circ}\text{C}$
Temperaturkompensation	Off: deactivated nLF: non linear, acc. To EN 27888
Sensor	Permanently connected 2-pole measuring cell with integrated fast temperature sensor, 2-pole $\varnothing 12\text{ mm}$ (Titanium)
Cable length	1,2 m
Display	3-line with battery status indicator, background light, protected by an break-proof pane, overhead display at key press
Operation	4 long-lasting buttons
Additional functions	automatic temperature compensation
Operating conditions	Instrument -20...+50 $^{\circ}\text{C}$ Sensor -5...+80 $^{\circ}\text{C}$
Supply	2 x AA battery
Operation time	>1000 h
Ingress protection	IP 65 and IP 67
Housing	Break-proof ABS housing
Dimensions	108 x 54 x 28 mm (H x W x T) without sensor
Weight	approx. 200 g

Sensor



Measuring cell LF 209, 2 pole titanium:
nearly maintenance free, applicable up to 5000 $\mu\text{S}/\text{cm}$

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Scope of delivery

- handheld measuring device with permanently connected measuring cell:
- Test report
- 2x AA battery
- Operating manual

Standard articles

ECO521-L01	waterproof compact EC-meter / conductivity-meter Set-Option: Device, measuring cell LF 209, fix mounted Measuring cell: LF 209, 2 pole titanium/plastic Scope of delivery: Device incl. measuring cell, manual, battery, test protocol Art.Nr. 487104
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Accessories

ST-G1000	Device protection bag with 1 round cut-out and belt clip	article no. 611373
GCLIP1000	Metal belt clip, self-adhesive	article no. 475820
GKL 100	Calibration solution 1413 µS/cm in wide neck bottle	article no. 601396
Cases:		
GKK 1001	Compact storage of the device and excess space for equipment(395x295x106 mm)	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. 411917
GKK 1003	With recesses for a 2 devices and sensor G1400/G1500/G1600 series. Add. Recess for t-probe GF1T and 2 PHL buffer or GKL calibration solution and accessories (450 x 360 x 106 mm)	article no. 411917