EC measurement in solutions

EC 5000

The conductivity meter EC 5000 fulfills all demands of a reliable, easy-to-use instrument for all horticultural applications. The high-quality sensor is made of platinum-plated electrodes. They feature a very fast response and are completely maintenance-free. The integrated temperature sensor provides an automatic and fast temperature compensation.

The instrument is calibrated before leaving the factory and a re-calibration is basically not required. The measuring range up to 200 mS even allows precise measurements of fertilizer stock solutions.

Applications:

- Pot plant production: control of nutrient solutions (fertilizer mixing systems), stock-solutions
- Substrate production: salinity control of peat and cocopeat products
- Hydroponic systems, growing media like rockwool, etc.
- Laboratory use as universal EC-meter

Delivery contents: COMBI EC 5000 basic unit incl. data logger function, EC probe with platinum sensors, standard solutions 111.8 mS and 1.4 mS (50 ml each), volume measuring cup, 100 ml, manual with optimal values, transport and storage case.

Technical data	
Housing	splash-proof, rugged
Dimensions	180 x 83 x 55 mm
Power	9 Volt battery, > 4000 measurements
Connector	8-pin plug
Weight	300 g
EC measurement	
Measuring range	0 - 200 mS
Resolution	0.01 mS
Accuracy	± 2 % of measured value
Calibration	calibration solution 1.41 mS and 111.8 mS
Temp.-comp.	automatic
Probe	plastic housing probe with platinum sensors
Probe length	125 mm
Application	conductivity measurement for salinity determination of liquids and solutions

Item-no.	
10290	EC 5000, complete case
Components	
10291	EC 5000, basic unit
10212	EC plastic housing probe with platinum sensors
31003	Calibration solution 1.4 mS, 50 ml
31005	Calibration solution 111.8 mS, 50 ml
90036	Volume measuring cup, 100 ml
90079	Connection cable 8-pin to USB

Pocket tester

ECO EC Pocket Tester

This economic EC tester simultaneously measures conductivity and temperature, with automatic temperature compensation. Owing to the waterproof case the unit can be used even outdoors or in a very dusty environment. Stability indicator shows when the measured value can be read and the temperature is compensated.

- Automatic calibration
- Battery charge indicator
- Automatic switch-off: after 8 min

Delivery contents:
ECO EC pocket tester, 50 ml calibration solution 12.88 mS.

Technical data	
Housing	waterproof
Power	4 x 1.5 V > 350 h
Range	0 - 20 mS; 0 - 60°C
Resolution	0.01 mS; 0.1°C
Accuracy	± 2% full scale; ± 0.5°C
Calibration	automatic 1-point calibration at 12.88 mS
Probe	replaceable

Item-no.	
23075	ECO EC pocket tester
23076	EC probe
31004	Control solution 50 ml, 12.88 mS

Combo Pocket Tester pH & EC

The Combo Pocket Tester is a universal tester that offers high accuracy pH, conductivity, TDS and temperature measurements.

The water-resistant and floatable tester has a replaceable pH electrode with a pull-out textile diaphragm, as well as an easy to read display and an automatic shut-off. pH and conductivity measurements are automatically temperature compensated.

Delivery contents:
basic unit, pH electrode, tool for electrode replacement, buffer solutions pH 4 and pH 7, standard solution 12.88 mS (bags of 20 ml each), electrode cleaning solution, instructions and batteries.

Technical data	
Housing	waterproof
Power	4 × 1.5V AAA batteries
Dimensions	163 × 40 × 26 mm
Weight	85 g
Temp. comp.	automatically
pH measurement	
Measuring range	0 - 14 pH
Resolution	0.01 pH
Accuracy	± 0.05 pH
Calibration	automatic, 2-point at pH 4 and 7
Electrode	replaceable
EC measurement	
Measuring range	0 - 20 mS/cm
Resolution	0.01 mS/cm
Accuracy	± 2% of the measuring range
Calibration	automatic, 1-point at 12.88 mS
TDS measurement	
Measuring range	0 - 10 ppt
Resolution	0.01 ppt
Accuracy	± 2% of the measuring range
EC / TDS factor	selectable between 0.45 and 1.00
Temperature measurement	
Measuring range	0 - 60 °C
Resolution	0.1 °C
Accuracy	±0.5 °C

Item-no.	
23010	Combo-Pocket-Tester pH & EC
23011	Replacement pH electrode
31012	Buffer solution pH 4, 20 ml
31013	Buffer solution pH 7, 20 ml
31015	Standard solution 12.88 mS, 20 ml