

AutopHECaMETRO

for Soil and Water
precision measurements



Trouble-free measurements
of the electrical conductivity (EC)
and pH of soils, sediments,
water and biological samples

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AutopHECaMETRO is an instrument which allows the automatic measurements of pH and EC on soil, sediments, water and biological samples, while the user-specified schedule in the software will let even the non-expert users to run the samples measurements.



Sample	Temp(°C)	pH	EC(µS/cm)	Prec. Salinity
Sample 1	23.20	8.27	87.30	41.072
Sample 2	23.20	8.17	88.30	43.71
Sample 3	23.20	8.27	88.30	44.20
Sample 4	23.20	8.27	79.30	44.69

Specifications

Measurement process	Fully automatic. Simultaneous pH and EC measurements	
Measurements	pH	0-14
	Electrical Conductivity (EC)	0.1 µS/cm - 100 mS/cm
	Temperature	10 - 50°C (Temperature compensation of pH, EC and salinity data)
	Salinity	(calculated)
Calibration points	<ul style="list-style-type: none"> pH: 4, 7, 10 EC: 1413 µS/cm 	
Sampling rate	30-40 samples/hour (Depending on the sample type)	
No. of Samples	<ul style="list-style-type: none"> Up to 12 samples/120 mL each or 54 samples /40 mL each 	
Movement	X, Y, and Z axis arms	
Electrodes cleaning	Wash-station with 2 channel peristaltic pump	
Connectivity	Data export to .csv file	
Software	pHECaSoft	
Standards	ISO 17025, ISO 10390 2005, ISO 11265, BS 7755 3 4 1995	
Device	Dimensions (L×W×H)	560×580×620mm
	Weight	12kg
	CE Mark	Yes

ANALYSER

The robotic XYZ sample handling system consists of two (2) separate probes, one (1) for the EC and one (1) for pH / alkalinity.

SOFTWARE

The versatile robotic software allows operators to introduce the samples name and the amount, calibrate the pH and EC electrodes, adjust the stirring speed and wash time. During the analysis the pH, EC, and temperature, recorded in real time. User has the ability to import and export of the measurement schedule for automatic analysis and also the ability to export the experimental results to .csv file, and printing them.

Ordering information

AutopHECaMETRO-12	12×120ml
AutopHECaMETRO-54	54×40ml

Accessories / Spare parts

VL-120	Vials 120ml / pack of 100pcs
VL-40	Vials 40ml / pack of 100pcs
EL-PH	pH Electrode BNC
EL-EC	EC Electrode with ATC BNC/Banana



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