

HYDROCHECK HC1000

A portable, rugged IP67 multi-parameter electrochemical instrument for fast, accurate determination of pH, temperature, electrical conductivity, dissolved oxygen, total dissolved solids, salinity, and oxidation/reduction potential.

The waterproof (IP67) housing is ergonomically designed and ruggedised for field use, with an acid-resistant enclosure and a rigid, protected LCD display screen. The individual industrial-quality submersible sensors, with waterproof connectors, are mountable in multi-sensor sonde housing for ease of handling. The housing includes a 3 metre cable as standard, optionally extendable to 15 metres. The entire solution is housed in a waterproof carry case, inclusive of meter, electrodes, accessories and calibration solutions, offering a fully field-ready kit for portable electrochemical water quality monitoring.

BENEFITS OF HC1000

BENEFIT	FEATURE
Ideally suited for the rigours of field analysis, including a range of weather conditions	Rugged, waterproof, handheld meter with protected backlit LCD screen
Laboratory-quality results in the field, with minimal equipment downtime	Industrial-grade sensors
Allows multi-parameter analysis in a range of field locations	Multi-sensor sonde housing with up to 15 metre cable
Meaningful results are instantly obtained in the field with minimal user input	Automatic temperature compensation
Easily and quickly upload results from instrument straight to PC for storage and analysis	USB communication interface
Minimal time spent recording results ensures analyst is free to focus on sampling	500 data set memory with real-time date/time stamp
No additional equipment costs	Waterproof carry case complete with accessories and calibration solutions



pH	
Range	-2.000 - 20.000
Resolution	0.1, 0.01, 0.001, selectable
Accuracy	± 0.002
Calibration points	1 to 5 points
ORP	
Range	0 - ± 1999.9 mV
Resolution	1 or 0.1 mV selectable
Accuracy	± 0.2 mV
Calibration Points	1 point
Measurement Modes	Absolute or relative mV
CONDUCTIVITY	
Range	0 - 200 mS/cm
Resolution	1, 0.1, 0.01
Accuracy	± 0.5% F.S
Calibration Points	Up to 5 points
Calibration Solutions	10 µS, 84 µS, 1413 µS, 12.88 mS, 111.8 mS
Cell Constant	0.1, 1, 10, user-defined
Temperature Coefficient	0.0 - 10.0% per °C, linear or deionised water
Normalisation Temperature	20 or 25°C, selectable

TDS	
Range	0 - 10 ppt (Max. 20 ppt)
Resolution	1, 0.1, 0.01
Accuracy	± 1% F.S
TDS Conversion Factor	0.40 - 1.00
SALINITY	
Range	0 - 80 ppt or psu
Resolution	1, 0.1, 0.01
Accuracy	± 1% F.S
Measurement Modes	Practical Salinity or Seawater Standards
RESISTIVITY	
Range	0 - 100 MΩ
Resolution	1, 0.1, 0.01
Accuracy	± 1% F.S
DISSOLVED OXYGEN	
Range	0.00 - 20.00 mg/L or ppm
Accuracy	± 0.2 mg/L or ppm
% Saturation of Oxygen	0.0 - 200.0%
Accuracy	± 2.0%
Barometric Pressure	450 - 850 mmHg
Salinity Correction	0 - 50 g/L

TECHNICAL SPECIFICATIONS

User Interface	Backlit multi-function LCD display 60 x 60mm. 4SF digits on all parameters. Touch sensitive keypad with audible feedback
Operation	Temperature compensation: 0 - 100°C, 32 - 212°F, automatic or manual Stability condition: High (HI) or Low (LO), selectable Calibration due reminder: 1 to 30 days, selectable Auto-hold function Auto-off function: 10, 20, 30 minutes after last key pressed Electrode diagnosis: Slope, offset Output: USB Communication Interface
Environmental	Optimum operating temperature: 5 - 40°C Storage temperature: 0 - 70°C Humidity: 30 - 90% (Non-condensing) Chemically-resistant housing
Power Supply	3 x AAA/LR03 Alkaline cells, provides 26 hours operation, > 3000 tests USB power supply option (non-recharging)
Data	500 data sets with date/time stamp
Approvals	CE conformity; IP67 water resistance
Dimensions	470 x 365 x 190 mm
Weight	7.5 Kg