



HQ40D Portable pH and Conductivity Meter, Laboratory Kit for Water Quality, with Refill pH Electrode and 4 Poles Graphite Conductivity Cell, 1 m Cable

Product #:

8507520

Mazardous

OBSOLETE ITEM

This item is no longer available.

Suggested replacements:

- CDC40101
- PHC28101

Items with this mark may be considered hazardous under some shipping conditions.

If necessary, we will change your selected shipping method to accomodate these items.

Rugged portable meters for use in the field and plant.

Designed for your water quality laboratory applications measuring simultaneously pH and conductivity/TDS, the Hach HQ40D portable multi meter is a two channels advanced handheld digital meter that takes the guesswork out of measurements. The Hach HQD digital multimeter combines reliability, flexibility and ease of use. The HQD portable meters connect with a wide range of Intellical smart electrodes addressing different parameters, sample types and operating environment for water quality, environmental and treatment process purposes. The Intellical probe automatically recognize the testing parameter, store the calibration history, and method settings to minimize errors and setup time.

IntellicalTM PHC281 and CDC401 are digital combination pH electrode and Conductivity cell with built-in temperature sensor. The PHC281 is a pH refillable probe made for difficult samples. The PHC281 refillable pH electrode has a high electrolyte flow rate and a large open junction ideal for difficult samples, such as Low Ionic Strength (LIS), Ultrapure, dirty samples and samples with high solids content. The CDC401 is ideal for measuring electrical conductivity, salinity, resistivity, or total dissolved solids (TDS). These laboratory electrodes are shockproff with plastic body protecting down to the sensing element. The PHC281 pH sensor and CDC401 Conductivity Cell are recommended for wastewater, drinking water and general aquous applications. The PHC281 is not suitable for use with organic solvents.

Replaced by NEW HQ Series.

Rugged pH and Conductivity/TDS meter for outstanding and flexible field or laboratory water testing.

Dual input channels for flexible measurements without the need for multiple instruments, for pH, Conductivity, Resistivity, Total Dissolved Solids (TDS), Optical Dissolved Oxygen (DO), Biochemical Oxygen Demand (BOD), Oxidation Reduction Potential (ORP), Ammonia, Ammonium, Fluoride, Chloride, Sodium, and temperature - connect to any IntellicalTM smart electrode, sensor or probe.

Intuitive user interface for simple operation, reliable and accurate results

Guided calibration and check standard routines reduce calibration errors while stabilization alerts and visual measurement lock ensure that you can trust the accuracy of the results. Calibration status indicator and custom calibration alerts ensure accurate results.

Trust your measurements - Intellical™ smart probes store all calibrations in the probe

Calibration history allows quick and easy change out of probes without re-calibrating. The HQD smart system records serial numbers, current calibration data, user ID, sample ID, time, and date automatically in the data log for complete Good Laboratory Practice (GLP) traceability. Error-free O₂ results without calibration or replacing the electrolyte.

Designed for demanding field operating conditions and ease of use

Rugged and waterproof meter design provides worry-free, reliable operation in field environments. All connections between the meter and the probe are secure. Connectors can be color-coded for quick identification. Information is clearly displayed on the one screen with back light for low light conditions. Display results can be enlarged.

Complete convenient kit

Specifications

AC Power Adapter and USB/DC Adapter: Included

Automatic Buffer Recognition: Yes

Barometric Pressure Measurement: Automatic compensation of DO when using an LDO or LBOD probe

Calibration Intervals/Alerts/Reminder: Off, selectable from 2 hours to 7 days

CDC Electrode Calibration: Demal (1D/ 0.1D/ 0.01D);

Molar (0.1M/ 0.01M/0.001M);

NaCl (0.05%; 25μ S/cm; 1000μ S/cm; 18mS/cm);

Standard sea water;

User defined

Compliance Certifications: CE.WEEE

Conductivity Measurement at Stable

Reading:

Yes

Conductivity measurement: Temperature

correction:

None; Linear; NaCl Non-Linear Natural Water.

Conductivity Range: $0.01 \mu S/cm - 200.0 mS/cm$

Conductivity resolution: 0.01 µS/cm - 0.1 mS/cm upon selected measuring range

Contents: No

Custom Calibration Standards: Yes

Data Export: Download via USB connection to PC or flash memory device. Automatically transfer entire data

log or as readings are taken.

Data Memory: 500 records/FIFO

Data storage: Automatic, GLP ISO compliant reading data stored with calibration details.

Digital (intelligent) electrode inputs: 2 channels

Display: Detailed mode/Large mode

Display Type: 240 x 160 pixel LCD with backlight illumination

DO Measurement Range: 0.1 - 20.0 mg/L (ppm) 1 - 200% saturation

DO Resolution: 0.1

DO sensor calibration: * 100% (water-saturated air (100%) calibration

* 100% with 0 (water-saturated air (100%) calibration with 0 point

* mg/L (calibration with a specified dissolved oxygen concentration (mg/L) solution)

* mg/L with 0 (calibration with a specified dissolved oxygen concentration (mg/L) solution with 0

point)

* Factory (calibration with the default LDO calibration)

Electrode Type: Intellical Standard Laboratory or Rugged Field

Environmental Conditions: Relative

Humidity:

90 % relative humidity (non-condensing)

Environmental Conditions: Temperature: 0 - 60 °C (32 - 140 °F)

GLP Features: Date; Time; Sample ID; Operator ID

Inputs: 2

Portable Instrument: IP67 IP Rating: ISE Direct Measurement Range: Yes ISE Electrode Calibration: 2 - 5 Points Kit?: Yes Languages user interface: English, French, German, Italian, Spanish, Danish, Dutch, Polish, Portuguese, Turkish, Swedish, Czech, Russian Continuous / Auto-stabilization ("press to read") / At Interval Lock Function: Measurement method: Probe specific programmed method settings Model: HQ40D - Multi/2 Channels mV Measurement at Stable Reading: Yes -1500 - 1500 mV mV Measurement Range: mV Resolution: 0.1 mV Needed Cable Length: 1 Operating Error Messages: Clear text error messages displayed Soft Touch Keypad Operating Interface: **ORP** Electrode Calibration: Predefined ORP standards (including Zobell's solution) pH/Oxydo Reduction Potential (ORP) Parameter: Conductivity/Total Dissolved Solid (TDS)/Salinity/Resistivity Dissolved Oxygen (DO) Biochemical Oxygen Demand (BOD) Ion Selective Electrode (ISE): Ammonia, Ammonium, Chloride, Fluoride, Nitrate, Sodium Parameters: pН Conductivity NA PC Data Transfer Software: **HQD** Series Meter Data Transfer Utility pH Buffer Sets: Color-coded: 4.01, 7.00, 10.01 pH; IUPAC: 1.679, 4.005, 7.000, 10.012, 12.45 DIN: 1.09, 4.65, 9.23 User-defined custom buffer sets pH Electrode calibration: 1 - 3 Calibration points Calibration summary data logged and displayed 0 - 14 pHpH Measurement Range: Selectable: pH Resolution: 0.001/0.01/0.1 pH Printer: Yes, Optional Probes included: PHC28101, CDC40101 Salinity Measurement Range: 0 - 42 (ppt) (%) Salinity Resolution: 0.01 (ppt) (%) Sensor A: PHC28101 (1 m) Sensor B: CDC40101 (1 m)

Sensor C: NA

Sensors: Sensor A: PHC28101

Sensor B: CDC40101

Sensor C:

Simultaneous measurements: Yes, 2 channels

TDS Measurement Range: 0.00 mg/L - 50.0 g/L NaCl

TDS Resolution: 0.01 mg/L up - 0.1 g/L upon measuring range

Temperature Compensation: Automatic Temperature compensation for pH

Temperature Measurement: °C or °F

Temperature resolution: 0.1

Type of measurement: QC Lab
Warranty: 36 months

Weight: 335 g (0.75 lb) without batteries; 430 g (0.95 lb) with

What's included?: Meter package includes HQ40D Portable Meter; 4 AA batteries; Power adapter, USB/DC power

adapter for data transfer; quick-start guide and user manual. HQD Meter Stand; Probe stand; Sodium Chloride Standard Solution, 491 mg/L NaCl (1000 μ S/cm), 100 mL; Buffer Solution, pH

4.01/7.00/10.01 (NIST), color-coded red, $500~\mathrm{mL}.$

Intellical PHC281 Laboratory pH electrode with storage soaker bottle, 1 m cable, 59-mL bottle reference electrolyte filling solution (2.44 M KCl solution), Test certificate, and Basic User

Manual.

Intellical CDC401 Laboratory Conductivity Cell, 1 m cable, Test certificate, and Basic User

Manual.

What's included?

Meter package includes HQ40D Portable Meter; 4 AA batteries; Power adapter, USB/DC power adapter for data transfer; quick-start guide and user manual. HQD Meter Stand; Probe stand; Sodium Chloride Standard Solution, 491 mg/L NaCl (1000 μS/cm), 100 mL; Buffer Solution, pH 4.01/7.00/10.01 (NIST), color-coded red, 500 mL.Intellical PHC281 Laboratory pH electrode with storage soaker bottle, 1 m cable, 59-mL bottle reference electrolyte filling solution (2.44 M KCl solution), Test certificate, and Basic User Manual.Intellical CDC401 Laboratory Conductivity Cell, 1 m cable, Test certificate, and Basic User Manual.