



HQ440D Laboratory Dual Input, Multi-Parameter Meter - pH, Conductivity, Optical Dissolved Oxygen, ORP, and ISE

Product #: HQ440D.98.00002

AED Price: Contact Hach

Digital Electrochemistry: Confidence in pH , ORP, O₂ and Conductivity

The digital meter/electrode system HQD combines reliability, flexibility and ease of use. Interchangeable Intellical electrodes are recognised automatically and store all relevant data.

Flexible Laboratory bench multi Meter makes your testing of critical water quality parameters more efficient

Two input channels for simultaneous measurement of pH, Conductivity, Total Dissolved Solid (TDS), Optical Dissolved Oxygen (DO), Biochemical Oxygen Demand (BOD), Oxydo Reduction Potential (ORP/RedOx), Temperature, Ion Selective Electrode (ISE) direct concentration reading for Ammonia, Ammonium, Fluoride, Chloride, Sodium - connect any Intellical™ smart 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.

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..

Enhance data connectivity with easy to read results

Internal USB ports simplify data transfer, peripherals, and software updates and connection to PCs printer and keyboards, with a large ultra-bright backlit LCD screen with large font size for convenient reading.

Improve productivity and save laboratory space

Multi meter capabilities in one instrument with Intellical probes makes switching parameters fast and easy by automatically recalling your measurement settings.

Specifications

Auto-buffer recognition:	Yes
Backlight:	#
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
Casing IP rating:	IP54 (Resistant to spray of water; Dust-proof)
Communication:	Integrated USB type A (for USB 2.0 flash memory device, printer, keyboard) and Integrated USB type B (for PC)
Compliance certifications:	CE.WEEE
Conductivity calibration:	Demal (1D/ 0.1D/ 0.01D);

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

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

Standard sea water;

User defined

Conductivity measurement at stable reading: Yes

Conductivity measurement range: 0.01 µS/cm - 200.0 mS/cm

Conductivity measurement: Temperature correction: None; Linear; NaCl Non-Linear Natural Water.

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

Contents: Meter only

Custom calibration standards: Yes

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

Dimensions: 859 x 175 x 235 mm

Display: Detailed mode/Large mode

Display type: 440 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 stand: Optional

Environmental conditions: relative humidity: 90 % relative humidity (non-condensing)

Environmental conditions: temperature: 0 - 60 °C

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

Instrument: Bench

ISE direct measurement: Yes

ISE electrode calibration: 2 - 5 points

Kit?: No

Languages user interface: English, French, German, Italian, Spanish, Danish, Dutch, Polish, Portuguese, Turkish, Swedish, Czech, Russian

Lock function: Continuous / Auto-stabilization ("press to read") / At Interval

Measurement method: Probe specific programmed method settings

Model: HQ440D – Multi/2 Channels

mV measurement at stable reading: Yes

mV measurement range: -1500 - 1500 mV

mV resolution: 0.1 mV

Operating error messages: Clear text error messages displayed

Operating Interface: Soft Touch Keypad

ORP electrode calibration: Predefined ORP standards (including Zobell's solution)

Parameter: pH/Oxydo Reduction Potential (ORP)

	Conductivity/Total Dissolved Solid (TDS)/Salinity/Resistivity
	Dissolved Oxygen (DO)
	Biochemical Oxygen Demand (BOD)
PC data transfer software :	Ion Selective Electrode (ISE): Ammonia, Ammonium, Chloride, Fluoride, Nitrate, Sodium HQD Series Meter Data Transfer Utility
pH Buffer Sets:	Colour-coded: 4.01, 7.00, 10.01 pH; IUPAC: 1.679, 4.005, 7.000, 10.012, 12.45 pH DIN: 1.09, 4.65, 9.23 pH User-defined custom buffer sets
pH Electrode calibration:	1 - 3 Calibration points Calibration summary data logged and displayed
pH Measurement Range:	0 - 14 pH
pH Resolution:	Selectable: 0.001/0.01/0.1 pH
Printer:	Yes, Optional
Probes included?:	None
Resistivity measurement:	2.5 Ω.cm - 49 MΩ.cm
Resolution:	0.01 mg/L - 0.1 g/L upon measuring range.
Salinity measurement range:	0 - 42 (ppt) (‰)
Salinity resolution:	0.01 (ppt) (‰)
Sensor A:	NA
Sensor B:	NA
Sensor C:	NA
Simultaneous measurements:	Yes
TDS measurement range:	0.00 mg/L - 50.0 g/L as NaCl
Temperature compensation:	Automatic Temperature compensation for pH
Temperature measurement range:	°C or °F
Temperature range:	-10 °C - 110 °C
Temperature resolution:	0.1 °C
Warranty:	36 months
Weight:	750 g without batteries; 850 g with batteries
What's included?:	HQ440D Laboratory Dual Inputs, Multi-Parameter Meter - pH, Conductivity, Optical Dissolved Oxygen, ORP, and ISE. With 4 AA batteries, universal power adapter + cable, USB cable for data transfer, user manual. Without electrodes.

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