



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

**Product #:** HQ440D.98.00012  
**AED Price:** Contact Hach

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### **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.

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## Specifications

Auto-buffer recognition:	Yes
Backlight:	Included
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 + Probe(s) stand

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: Included

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 electrode stand, 4 AA batteries, universal power adapter + cable, USB cable for data transfer, user manual. Without electrodes.

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