



## HQ440d Benchtop Dual Input, Multi-Parameter Meter - pH, Conductivity, Optical Dissolved Oxygen, ORP, and ISE

Product #: HQ440D

### Multiparameter: Plug-and-Play any Two IntelliCAL Probes!

Designed for your water applications, the Hach HQ440d laboratory meter is an advanced meter that takes the guesswork out of measurements. HQd™ meters connect with IntelliCAL™ probes that automatically recognize the testing parameter, calibration history, and method settings to minimize errors and setup time.

### Flexible benchtop meter makes your lab testing of critical water quality parameters more efficient

Two input channels for simultaneous measurement of pH, Conductivity, Optical Dissolved Oxygen, BOD, ORP, Ammonia, Ammonium, Fluoride, Chloride, Sodium, and temperature - any IntelliCAL™ smart probe.

### Intuitive user interface for simple operation 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 GLP traceability..

### Enhance productivity with an ultra-bright screen and large font size for easy to read results

Internal USB ports simplify data transfer, peripherals, and software updates and connection to PCs printer and keyboards.

### Convenient kit includes everything you need to start testing

Meter kit includes 4 AA batteries, power adapter, USB cable for data transfer, quick start guide, and user manual

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## Specifications

AC and USB Operation:	#
Automatic Buffer Recognition:	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
Barometric Pressure Measurement:	For automatic compensation of DO when using an LDO or LBOD probe
Battery Requirements:	4, AA
Benchtop:	#
BOD5/CBOD resolution:	Available when used with Hach WIMS BOD Manager software
Cable resistance correction:	Digital - not needed
Calibration Curves Display:	Calibration summary data logged and displayed
Calibration Intervals/Alerts/Reminder:	2 hours to 7 days
Compliance Certifications:	CE.WEEE

Conductivity Accuracy:	± 0.5 % % from (1µS/cm - 200 mS/cm)
Conductivity measurement:	5 different stability modes
Conductivity Measurement Range:	0.01 µS/cm to 200 mS/cm
Conductivity resolution:	5 digits with 2 digits after decimal point
Custom Calibration Standards:	User-defined standard sets
Data Export:	Download via USB connection to PC or flash stick. Automatically transfer entire data log or as readings are taken.
Data Memory:	500 results
Data Storage:	GLP/ISO compliant reading data stored with calibration details. Calibration details and check standard readings documented as events in data log. Automatically store in "press to read" mode and interval measurement mode. Manually store in "continuous read" mode.
Digital (intelligent) electrode inputs:	2 channel
Dimensions (H x W x D):	89 mm x 173 mm x 234 mm
Display:	Display readings from one or two probes Simultaneous readings from two probes (HQ440d only) pH: pH, mV, temperature Conductivity: Conductivity, TDS, salinity, resistivity, temperature LDO: dissolved oxygen, pressure, temperature LBOD: dissolved oxygen, pressure, temperature ORP/Redox: mV, temperature Sodium: Sodium, mV, temperature
Display Lock Function:	Continuous measurement or "press to read" mode available with averaging function for LDO measurement.
Display Type:	240 x 160 pixel Display readings from one or two probes Simultaneous readings from two probes pH: pH, mV, temperature Conductivity: Conductivity, TDS, salinity, resistivity, temperature LDO: dissolved oxygen, pressure, temperature ORP/Redox: mV, temperature Sodium: Sodium, mV, temperature
DO Measurement Range:	0.01 to 20.0 mg/L mg/L (0 to 200%)
DO Resolution:	0.01 mg/L or 0.1 %
Fixed Buffer Selection:	IUPAC standards (DIN 19266) or Technical buffer (DIN 19267) or 4-7-10 series or user defined
GLP Features:	#
Inputs:	2
Interface Languages:	13**
Internal Data Storage:	500
IP Rating:	IP54
ISE Direct Measurement Range:	Yes
ISE Electrode Calibration:	Electrode specific - see electrode user instructions
Languages:	English, French, German, Italian, Spanish, Danish, Dutch, Polish, Portuguese, Turkish, Swedish, Czech, Russian
Length:	234 mm
Measuring Range ORP:	-1500 to 1500 mV
mV Accuracy:	± 0.1 mV
mV Measurement at Stable Reading:	5 stabilization settings
mV Measurement Range:	-1500 to 1500 mV
mV Resolution:	0.1 mV
Operating Error Messages:	Full text messages
Operating Humidity:	90 % relative humidity (non-condensing)

Operating Interface:	Keypad
Operating Temperature:	5 to 45 °C
ORP Electrode Calibration:	Predefined ORP standards (including Zobell's solution)
Output:	USB to PC / flash stick
Parameter:	pH, mV, ISE, DO, Conductivity, TDS, Salinity, Resistivity, ORP, Temp
pH Accuracy:	± 0.002 pH
pH Measurement:	0 to 14 pH
pH Measurement at stable reading:	5 stabilization settings
pH Resolution:	Selectable between 0.001 and 0.1 pH
Power Requirements (Voltage):	7 V
Printer:	Optional accessory
Resistivity Accuracy:	0.5 %
Resistivity Measurement:	2.5 Ωcm to 49 MΩcm
Resistivity Resolution:	5
Resolution:	0.1/ 0.01/ 0.001
Salinity Measurement Range:	0 to 42 g/kg
Salinity Resolution:	0.01 ppt
Sample Temperature:	2 channels
Sodium resolution:	0.001 mg/L (ppm)
TDS Measurement Range:	0.0 to 50.0 mg/L
Temperature Accuracy:	0.3 °C
Temperature Compensation:	Off, automatic, and manual (auto correction is parameter dependent)
Temperature Range:	-10 to 110 °C
Temperature Resolution:	0.1 °C
Warranty:	3 years
Water Resistance:	IP54 (Resistant to spray of water; Dust-proof)
Weight:	1.87 lbs. (0.850 kg)

## What's in the box?

Includes: meter, 4 AA batteries, universal power adapter, USB cable for data transfer, quick start guide and user manual

## Required Accessories

- IntelliCAL™ LBOD101 Luminescent/Optical Dissolved Oxygen (LDO) Probe for BOD Measurement (1-meter cable) (Item LBOD10101)
- IntelliCAL PHC705 RED ROD General Purpose pH Electrode (Item PHC70501)
- IntelliCAL PHC735 RED ROD pH Electrode for Dirty Samples (Item PHC73501)
- IntelliCAL PHC74501 RED ROD pH Electrode for Challenging Samples (Item PHC74501)