



## HQ440d Benchtop Meter Package with PHC725 pH Ultra Electrode

**Product #: 8505850**

Call for ship date

Designed for water quality experts, the Hach HQ440d benchtop meter is an advanced laboratory meter that takes the guesswork out of measurements. HQd meters connect with smart probes that automatically recognize the testing parameter, calibration history, and method settings to minimize errors and setup time. The advanced benchtop meter is designed to withstand years of continuous lab use. HQd meters feature a simple user interface that does not require manuals or training to operate. The high-flowing reference and open junction of the pH Ultra electrode included in this package delivers fast stabilization time even in the most difficult sample types and low ionic strength waters.

**Make your lab testing more efficient with a flexible meter to measure critical water quality parameters-improve productivity and save lab space with the HQd benchtop meter**

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

**All benchtop HQd meters provide an 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 with IntelliCAL™ smart probes that 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.

**Meter package includes PHC725 pH Ultra electrode with 1 m cable, pH Buffer Kit (500 mL), pH storage solution (500 mL), probe stand, 4 AA batteries, power adapter, USB cable for data transfer, quick-start guide, user manual, and documentation CD**

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### Specifications

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
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 % mg/L
Fixed Buffer Selection:	IUPAC standards (DIN 19266) or Technical buffer (DIN 19267) or 4-7-10 series or user defined
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
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 to 0.1 pH
Power Requirements (Voltage):	7 V
Printer:	Optional accessory
Resistivity Accuracy:	0.5 %
Resistivity Measurement:	2.5 $\Omega$ cm to 49 M $\Omega$ cm
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 Resolution:	0.1 °C
Weight:	1.87 lbs. (0.850 kg)

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## What's in the box?

Meter package includes PHC725 pH Ultra electrode with 1 m cable, pH Buffer Kit (500 mL), pH storage solution (500 mL), probe stand, 4 AA batteries, power adapter, USB cable for data transfer, quick-start guide, user manual, and documentation CD