



HQ40d Portable pH, Conductivity, Dissolved Oxygen, ORP, and ISE Multi-Parameter Meter

Product #: HQ40D53000000

USD Price: Contact Hach

Ships within 3 days

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

Designed for your water applications, the Hach HQ40d portable meter is an advanced 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.

Portable meter measures critical water quality parameters - without the need for multiple instruments

Two input channels for simultaneous measurement of pH, Conductivity, Optical Dissolved Oxygen (DO), 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. Stabilization alerts and visual measurement lock ensure that you can trust in 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

Designed for demanding conditions

Rugged, waterproof (IP67) meter, protective glove, and rugged field case provide worry-free, reliable operation in lab or field environments.

Meter kit includes field case, 4 AA batteries, protective meter glove, power adapter, USB/DC power adapter for data transfer, quick-start guide, user manual, and documentation CD

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
Battery Requirements:	4, AA
BOD5/CBOD resolution:	Available when used with Hach WIMS BOD Manager software
Cable resistance correction:	Digital - not needed
Calibration Curves Display:	Calibration summary data
Calibration Intervals/Alerts/Reminder:	2 hours to 7 days
Compliance:	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 200.0 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
Dimensions (H x W x D):	197 mm x 95 mm x 36 mm
Display:	Display readings from one or two probes Simultaneous readings from two probes (HQ40d 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 mg/L mg/L (0 to 200%)
DO Resolution:	0.01 mg/L
Height:	197 mm 19.7 cm
Inputs:	2
Interface Languages:	13
Internal Data Storage:	500
IP Rating:	IP67
ISE Direct Measurement Range:	Yes
ISE Electrode Calibration:	Electrode specific
Languages:	Selectable: 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:	Keypad
Operating Humidity:	90 % relative humidity (non-condensing)
Operating Interface:	Keypad
Operating Temperature:	0 to 60 °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 Electrode calibration:	5 stabilization settings

pH Measurement:	0 to 14 pH
pH Measurement at stable reading:	5 stabilization settings
pH Resolution:	Selectable between 0.001 - 0.1 pH
Power Requirements (Voltage):	6 V
Printer:	Optional accessory
Probe Type:	Standard
Resolution:	0.1/ 0.01/ 0.001
Salinity Measurement Range:	0.01 ppt
Salinity Resolution:	0.01ppt
Sample Temperature:	2 channels
Warranty:	3 years
Water Resistance:	Meter Casing: 1 meter submersion for 30 minutes (IP67)
Weight:	0.74 lbs. (0.335 kg)

What's in the box?

Meter kit includes field case, 4 AA batteries, protective meter glove, power adapter, USB/DC power adapter for data transfer, quick-start guide and user manual.

Required Accessories

- IntelliCAL™ LDO101 Standard Luminescent/Optical Dissolved Oxygen (LDO) Probe, 3-Meter Cable (Item LDO10103)
- IntelliCAL™ LDO101 Rugged Luminescent/Optical Dissolved Oxygen (LDO) Probe, 5-Meter Cable (Item LDO10105)
- IntelliCAL™ LDO101 Rugged Luminescent/Optical Dissolved Oxygen (LDO) Probe, 10 meter cable (Item LDO10110)
- IntelliCAL™ LDO101 Rugged Luminescent/Optical Dissolved Oxygen (LDO) Probe, 15 meter cable (Item LDO10115)
- IntelliCAL™ LDO101 Rugged Luminescent/Optical Dissolved Oxygen (LDO) Probe, 30 meter cable (Item LDO10130)
- IntelliCAL™ LBOD101 Luminescent/Optical Dissolved Oxygen (LDO) Probe for BOD Measurement (1-meter cable) (Item LBOD10101)
- IntelliCAL™ CDC401 Standard Conductivity Probe, 3 m cable (Item CDC40103)
- IntelliCAL™ CDC401 Rugged Conductivity Probe, 5 m cable (Item CDC40105)
- IntelliCAL™ CDC401 Rugged Conductivity Probe, 10 m cable (Item CDC40110)
- IntelliCAL™ CDC401 Rugged Conductivity Probe, 15 mcable (Item CDC40115)
- IntelliCAL™ CDC401 Rugged Conductivity Probe, 30 m cable (Item CDC40130)
- IntelliCAL™ PHC301 Standard Refillable pH Electrode, 3 meter cable (Item PHC30103)
- IntelliCAL™ PHC281 pH Ultra Refillable pH Electrode, 1 m cable (Item PHC28101)
- IntelliCAL™ PHC281 pH Ultra Refillable pH Electrode, 3 m cable (Item PHC28103)
- IntelliCAL™ PHC101 Rugged Gel Filled pH Electrode, 5 meter cable (Item PHC10105)
- IntelliCAL™ PHC101 Rugged Gel Filled pH Electrode, 10 meter cable (Item PHC10110)
- IntelliCAL™ PHC101 Rugged Gel Filled pH Electrode, 15 meter cable (Item PHC10115)
- IntelliCAL™ PHC101 Rugged Gel Filled pH Electrode, 30 meter cable (Item PHC10130)
- IntelliCAL™ ISENa381 Sodium Ion Selective Electrode (ISE), 1 meter cable (Item ISENA38101)
- IntelliCAL™ ISENa381 Sodium Ion Selective Electrode (ISE), 3 meter cable (Item ISENA38103)
- IntelliCAL™ Ammonia ISE Electrode with 1m Cable (Item ISENH318101)
- IntelliCAL™ Ammonia ISE Electrode with 3m Cable (Item ISENH318103)
- IntelliCAL™ ISENH4181 Ammonium Ion Selective Electrode (ISE), 1 meter cable (Item ISENH418101)
- IntelliCAL™ ISENH4181 Ammonium Ion Selective Electrode (ISE), 3 meter cable (Item ISENH418103)
- IntelliCAL™ ISECL181 Chloride Ion Selective Electrode (ISE), 1 meter cable (Item ISECL18101)
- IntelliCAL™ ISECL181 Chloride Ion Selective Electrode (ISE), 3 meter cable (Item ISECL18103)
- IntelliCAL™ ISEF121 Fluoride Ion Selective Electrode (ISE), 1 meter cable (Item ISEF12101)
- IntelliCAL™ ISEF121 Fluoride Ion Selective Electrode (ISE), 3 meter cable (Item ISEF12103)
- IntelliCAL™ ISENO3181 Nitrate Ion Selective Electrode (ISE), 1 meter cable (Item ISENO318101)
- IntelliCAL™ ISENO3181 Nitrate Ion Selective Electrode (ISE), 3 meter cable (Item ISENO318103)
- IntelliCAL™ MTC101 Rugged Gel Filled ORP Electrode, 5 meter cable (Item MTC10105)
- IntelliCAL™ MTC101 Rugged Gel Filled ORP Electrode, 10 meter cable (Item MTC10110)
- IntelliCAL™ ORP Gel-Filled Probe, Rugged, 15 meter cable (Item MTC10115)

- IntelliCAL™ ORP Gel-Filled Probe, Rugged, 30 meter cable (Item MTC10130)
- IntelliCAL™ MTC101 Standard Gel Filled ORP Electrode, 1 meter cable (Item MTC10101)
- IntelliCAL™ MTC101 Standard Gel Filled ORP Electrode, 3 meter cable (Item MTC10103)
- IntelliCAL™ MTC301 Standard Refillable ORP Electrode, 1 meter cable (Item MTC30101)
- IntelliCAL™ MTC301 Standard Refillable ORP Electrode, 3 meter cable (Item MTC30103)
- IntelliCAL™ PHC201 Standard Gel Filled pH Electrode, 1 meter cable (Item PHC20101)
- IntelliCAL™ PHC201 Standard Gel Filled pH Electrode, 3 meter cable (Item PHC20103)