



## HQ40D Portable Meter Package with LDO101 Rugged Optical Dissolved Oxygen and PHC101 Rugged pH Probes

Product #:

8505400



**Hazardous**

### **OBSELETE ITEM**

This item is no longer available.

Items with this mark may be considered hazardous under some shipping conditions.

If necessary, we will change your selected shipping method to accomodate these items.

### Rugged DO/pH Field Kit

Designed for water quality experts, 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. The durable portable meter and optional rugged probes are designed to withstand years of rugged portable and field use. HQD meters feature a simple user interface that does not require manuals or training to operate. This package features rugged optical dissolved oxygen (LDO) and pH probes for years of worry-free use around the plant or in the field.

Replaced by NEW HQ Series.

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

Two input channels for simultaneous measurement of pH, Conductivity, 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. 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.

#### **Designed for demanding conditions**

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

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

Meter package includes HQ40D Portable Meter, LDO101 rugged optical dissolved oxygen probe with 5 m cable, PHC101 rugged pH probe with 5 m cable, rugged field case, pH storage solution, pH calibration packets (20 each), DO calibration flask, disposable wipes, 4 sample collection cups, trash bag, 500mL wash bottle, 4 AA batteries, protective meter glove, power adapter, USB/DC power adapter for data transfer, quick-start guide, user manual, and documentation

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### Specifications

AC Power Adapter and USB/DC Adapter:	Included
Automatic Buffer Recognition:	Yes
Backlight:	Yes
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

CDC Electrode 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
Compliance Certifications:	CE.WEEE
Conductivity Measurement at Stable Reading:	Yes
Conductivity measurement: Temperature correction:	None; Linear; NaCl Non-Linear Natural Water.
Conductivity Range:	0.01 µS/cm - 200.0 mS/cm
Conductivity resolution:	0.01 µS/cm - 0.1 mS/cm upon selected measuring range
Contents:	Meter + Probe(s) + Reagents
Custom Calibration Standards:	Yes
Data Export:	Download via USB connection to PC or flash memory device. Automatically transfer entire data log or as readings are taken.
Data Memory:	500 records/FIFO
Data storage:	Automatic, GLP ISO compliant reading data stored with calibration details.
Digital (intelligent) electrode inputs:	2 channels
Display:	Detailed mode/Large mode
Display Type:	240 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 Type:	Intellical Standard Laboratory or Rugged Field
Environmental Conditions: Relative Humidity:	90 % relative humidity (non-condensing)
Environmental Conditions: Temperature:	0 - 60 °C (32 - 140 °F)
GLP Features:	Date; Time; Sample ID; Operator ID
Inputs:	2
Instrument:	Portable
IP Rating:	IP67
ISE Direct Measurement Range:	Yes
ISE Electrode Calibration:	2 - 5 Points
Kit?:	Yes
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:	HQ40D – Multi/2 Channels
mV Measurement at Stable Reading:	Yes
mV Measurement Range:	-1500 - 1500 mV
mV Resolution:	0.1 mV
Needed Cable Length:	5
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/ ResistivityDissolved Oxygen (DO)Biochemical Oxygen Demand (BOD)Ion Selective Electrode (ISE): Ammonia, Ammonium, Chloride, Fluoride, Nitrate, Sodium
Parameters:	pH
	Dissolved Oxygen
	NA
PC Data Transfer Software :	HQD Series Meter Data Transfer Utility
pH Buffer Sets:	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
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:	PHC10105, LDO10105
Salinity Measurement Range:	0 - 42 (ppt) (‰)
Salinity Resolution:	0.01 (ppt) (‰)
Sensor A:	PHC10105 (5 m rugged)
Sensor B:	LDO10105 (5 m rugged)
Sensor C:	NA
Sensors:	Sensor A: PHC10105
	Sensor B: LDO10105
	Sensor C:
Simultaneous measurements:	Yes, 2 channels
TDS Measurement Range:	0.00 mg/L - 50.0 g/L NaCl
TDS Resolution:	0.01 mg/L up - 0.1 g/L upon measuring range
Temperature Accuracy:	± 0.3 °C
Temperature Compensation:	Automatic Temperature compensation for pH
Temperature Measurement:	°C or °F
Temperature resolution:	0.1

Type of measurement:	Field Measurements
Warranty:	36 months
Weight:	335 g (0.75 lb) without batteries; 430 g (0.95 lb) with
What's included?:	Meter package includes HQ40d Portable Meter, LDO101 rugged optical dissolved oxygen probe with 5 m cable, PHC101 rugged pH probe with 5 m cable, rugged field case, pH storage solution, pH calibration packets (20 each), DO calibration flask, disposable wipes, 4 sample collection cups, trash bag, 500mL wash bottle, 4 AA batteries, protective meter glove, power adapter, USB/DC power adapter for data transfer, quick-start guide, user manual, test certificate and documentation

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