



Be Right™



HQ40D Portable Dissolved Oxygen Meter, Premium Field Kit for Environmental Monitoring, with Field Luminescent DO Sensor, 5 m Cable

Product #: 8505200
ZAR Price: Contact Hach
Call for ship date

Rugged DO Field Kit

Designed for your water quality field applications measuring Dissolved Oxygen (DO), the Hach HQ40D portable multi meter is a two channels advanced handheld digital meter that takes the guesswork out of measurements. The Hach HQD digital multimeter combines reliability, flexibility and ease of use. The HQD portable meters connect with a wide range of Intellical smart electrodes addressing different parameters, sample types and operating environment for water quality, environmental and treatment process purposes. The Intellical probe automatically recognize the testing parameter, store the calibration history, and method settings to minimize errors and setup time. In their Rugged outdoor version the Intellical sensors are nearly indestructible and available with multiple cable lengths.

Intellical™ LDO101 is a digital, luminescent/optical dissolved oxygen (LDO) probe. This Rugged DO sensor version is built with a stainless steel body ensuring sufficient weight to the probe for an easy outside handling, the sensing part is protected by a shroud, and the connection is ensured by strong and visible yellow coloured cable onto which you can clip depth markers (optional accessories), making the LDO101 rugged models specially designed for field use. The LDO101 is fitted with an automatic pressure sensor module and a temperature sensor. The DO sensing cap comes with an iButton to track days in use and remind remaining life of the sensing cap element. The LDO101 Rugged is ideal for measuring dissolved oxygen in all type of external environment such as river, surface and ground waters, ponds, lakes, sea, wastewater plant, source water, drinking water reservoir for water quality, environmental and treatment process purposes.

Rugged DO meter for outstanding and flexible field water testing.

Dual input channels for flexible measurements without the need for multiple instruments, for pH, Conductivity, Resistivity, Total Dissolved Solids (TDS), Optical Dissolved Oxygen (DO), Biochemical Oxygen Demand (BOD), Oxidation Reduction Potential (ORP), Ammonia, Ammonium, Fluoride, Chloride, Sodium, and temperature - connect to any Intellical™ smart electrode, sensor or 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. Calibration status indicator and custom calibration alerts ensure accurate 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. Error-free O₂ results without calibration or replacing the electrolyte.

Designed for demanding field operating conditions and ease of use

Rugged and waterproof meter design provides worry-free, reliable operation in field environments. All connections between the meter and the probe are secure. Connectors can be color-coded for quick identification. Information is clearly displayed on the one screen with back light for low light conditions. Display results can be enlarged.

Complete convenient kit

Package content includes everything you need to start testing. Details below

Specifications

AC Power Adapter and USB/DC Adapter: Included

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| Automatic Buffer Recognition: | 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: | No |
| 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 Lock Function: | Continuous / Auto-stabilization ("press to read") / At Interval |
| 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: | Intellectual 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 |

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| Languages user interface: | English, French, German, Italian, Spanish, Danish, Dutch, Polish, Portuguese, Turkish, Swedish, Czech, Russian |
| 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/Resistivity |
| | Dissolved Oxygen (DO) |
| | Biochemical Oxygen Demand (BOD) |
| | Ion Selective Electrode (ISE): Ammonia, Ammonium, Chloride, Fluoride, Nitrate, Sodium |
| Parameters: | Dissolved Oxygen |
| | NA |
| | 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: | LDO10105 |
| Region: | US |
| Salinity Measurement Range: | 0 - 42 (ppt) (‰) |
| Salinity Resolution: | 0.01 (ppt) (‰) |
| Sensors: | Sensor A: LDO10105 |
| | Sensor B: NA |
| | 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 |

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| 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: | 3 years |
| Weight: | 335 g (0.75 lb) without batteries; 430 g (0.95 lb) with |

What's in the box?

Meter package includes HQ40D Portable Meter; 4 AA batteries; Power adapter, USB/DC power adapter for data transfer; quick-start guide and user manual; Protective Glove for Portable HQd Meter; 120 mL Sample Container (x4); Flask, Erlenmeyer, Polymethylpentene Capacity 250 mL (x1); Bottle, Wash, Polyethylene, 500 mL; Disposable Wipes, 11 x 22 cm, 280 per package; Rugged Field Case for Two Rugged Probes. Intellical LDO101 Rugged Luminescent Dissolved Oxygen (LDO) probe, 5 m cable, protective shroud kit, DO cap with iButton (already mounted) Test certificate, and Basic User Manual.