



## HQ430D Benchtop pH, Conductivity, Dissolved Oxygen, ORP, and ISE Multi-Parameter Meter, 1 Channel

**Product #:**

**HQ430D**

**ZAR Price:**

Contact Hach

Ships within 1 week

### Multiparameter: Plug and Play any Intellical Probe!

Designed for water quality experts, the Hach HQ430d Laboratory Multi-Meter is an advanced laboratory meter that takes the guesswork out of measurements. HQD laboratory meters connect with smart Intellical electrodes that automatically recognize the testing parameter, calibration history, and method settings to minimize errors and setup time. The advanced HQD Laboratory Meter is designed to withstand years of continuous lab use. HQD bench meters feature a simple user interface that does not require manuals or training to operate. The HQD digital meter is ideal for any of the following measurement parameters as a pH meter, a mV/RedOx/ORP meter, an Ion Selective (ISE) meter, a Dissolved Oxygen (DO) meter, a Biochemical Oxygen Demand (BOD) meter, a conductivity meter for measuring electrical conductivity, salinity, resistivity, or total dissolved solids (TDS), in wastewater, drinking water or general water quality applications, soil, and food or beverages applications. A wide range of Intellical electrodes, cell, probes and sensors are available to perform accurate measurements in any sample media types.

### Flexible Laboratory bench multi Meter for efficient water quality parameters testing

Single input channel for flexible measurement of pH, Conductivity, Total Dissolved Solid (TDS), Optical Dissolved Oxygen (DO), Biochemical Oxygen Demand (BOD), Oxydo Reduction Potential (ORP/RedOx), Temperature, Ion Selective Electrode (ISE) direct concentration reading for Ammonia, Ammonium, Fluoride, Chloride, Sodium - connect any Intellical™ smart 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.

### 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 Good Laboratory Practice (GLP) traceability.

### Enhance data connectivity with easy to read results

Internal USB ports simplify data transfer, peripherals, and software updates and connection to PCs printer and keyboards, with a large ultra-bright backlit LCD screen with large font size for convenient reading.

### Improve productivity and save laboratory space

Multi meter capabilities in one instrument with Intellical probes makes switching parameters fast and easy by automatically recalling your measurement settings.

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## Specifications

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
Communication:	Integrated USB type A (for USB 2.0 flash memory device, printer, keyboard) and Integrated USB type B (for PC)
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 Only
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.
Dimensions:	859 x 175 x 235 mm
Display:	Detailed mode/Large mode
Display Type:	440 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:	<ul style="list-style-type: none"> <li>• 100% (water-saturated air (100%) calibration</li> <li>• 100% with 0 (water-saturated air (100%) calibration with 0 point</li> <li>• mg/L (calibration with a specified dissolved oxygen concentration (mg/L) solution)</li> <li>• mg/L with 0 (calibration with a specified dissolved oxygen concentration (mg/L) solution with 0 point)</li> <li>• Factory (calibration with the default LDO calibration)</li> </ul>
Electrode stand:	Optional
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
Instrument:	Bench
IP Rating:	IP54 (Resistant to spray of water; Dust-proof)
ISE Direct Measurement Range:	Yes
ISE Electrode Calibration:	2 - 5 points
Kit?:	No
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:	HQ430D – Multi/1 Channel
mV Measurement at Stable Reading:	Yes
mV Measurement Range:	-1500 - 1500 mV
mV Resolution:	0.1 mV
Needed Cable Length:	NA
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
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 pH
	DIN: 1.09, 4.65, 9.23 pH
	User-defined custom buffer sets
	1 - 3 Calibration points
pH Electrode calibration:	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:	None
Resistivity Measurement:	2.5 Ω.cm - 49 MΩ.cm
Resistivity Resolution:	0.1
Salinity Measurement Range:	0 - 42 (ppt) (‰)
Salinity Resolution:	0.01 (ppt) (‰)
Sensor A:	NA
Sensor B:	NA
Sensor C:	NA
Sensors:	Sensor A: NA
	Sensor B: NA
	Sensor C: NA
TDS Measurement Range:	0.00 mg/L - 50.0 g/L as NaCl
TDS Resolution:	0.01 mg/L - 0.1 g/L upon measuring range.
Temperature Compensation:	Automatic Temperature compensation for pH
Temperature Measurement:	°C or °F

Temperature Range:	-10°C - 110 °C
Temperature resolution:	0.1
Type of measurement:	Lab Water Quality applications.
Warranty:	36 months
Weight:	750 g (1.65 lb) without batterie; 850 g (1.87 lb) with batteries
What's included?:	Meter package includes HQ430D Laboratory Single Input, Multi-Parameter Meter - pH, Conductivity, Optical Dissolved Oxygen, ORP, and ISE, 4 AA batteries, universal power adapter, USB cable for data transfer, quick start guide and user manual

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## Required Accessories

- Intellical LBOD101 Luminescent/Optical Dissolved Oxygen (LDO) Sensor for BOD Measurements, 1 m Cable (Item LBOD10101)
- Intellical LDO101 Laboratory Luminescent/Optical Dissolved Oxygen (DO) Sensor, 1 m Cable (Item LDO10101)
- Intellical LDO101 Laboratory Luminescent/Optical Dissolved Oxygen (DO) Sensor, 3 m Cable (Item LDO10103)
- Intellical CDC401 Laboratory 4-Poles Graphite Conductivity Cell, 1 m Cable (Item CDC40101)
- Intellical CDC401 Laboratory 4-Poles Graphite Conductivity Cell, 3 m Cable (Item CDC40103)
- Intellical PHC301 Laboratory General Purposes Refillable pH Electrode, 1 m Cable (Item PHC30101)
- Intellical PHC301 Laboratory General Purposes Refillable pH Electrode, 3 m Cable (Item PHC30103)
- Intellical PHC281 Water Quality Laboratory Refillable pH Electrode, 1 m Cable (Item PHC28101)
- Intellical PHC281 Water Quality Laboratory Refillable pH Electrode, 3 m Cable (Item PHC28103)
- Intellical MTC101 Laboratory Low Maintenance Gel Filled ORP/RedOx Electrode, 1 m Cable (Item MTC10101)
- Intellical MTC101 Laboratory Low Maintenance Gel Filled ORP/RedOx Electrode, 3 m Cable (Item MTC10103)
- Intellical MTC301 Laboratory General Purpose Refillable ORP/RedOx Electrode, 1 m Cable (Item MTC30101)
- Intellical MTC301 Laboratory General Purpose Refillable ORP/RedOx Electrode, 3 m Cable (Item MTC30103)
- Intellical ISENA381 Sodium ( $\text{Na}^+$ ) Ion Selective Electrode (ISE), 1 m cable (Item ISENA38101)
- Intellical ISENA381 Sodium ( $\text{Na}^+$ ) Ion Selective Electrode (ISE), 3 m cable (Item ISENA38103)
- Intellical ISENH3181 Ammonia ( $\text{NH}_3$ ) Ion Selective Electrode (ISE), 1 m cable (Item ISENH318101)
- Intellical ISENH3181 Ammonia ( $\text{NH}_3$ ) Ion Selective Electrode (ISE), 3 m cable (Item ISENH318103)
- Intellical ISENH4181 Ammonium ( $\text{NH}_4^+$ ) Ion Selective Electrode (ISE), 1 m cable (Item ISENH418101)
- Intellical ISENH4181 Ammonium ( $\text{NH}_4^+$ ) Ion Selective Electrode (ISE), 3 m cable (Item ISENH418103)
- Intellical ISECL181 Chloride ( $\text{Cl}^-$ ) Ion Selective Electrode (ISE), 1 m cable (Item ISECL18101)
- Intellical ISECL181 Chloride ( $\text{Cl}^-$ ) Ion Selective Electrode (ISE), 3 m cable (Item ISECL18103)
- Intellical ISEF121 Fluoride ( $\text{F}^-$ ) Ion Selective Electrode (ISE), 1 m cable (Item ISEF12101)
- Intellical ISEF121 Fluoride ( $\text{F}^-$ ) Ion Selective Electrode (ISE), 3 m cable (Item ISEF12103)
- Intellical ISENO3181 Nitrate ( $\text{NO}_3^-$ ) Ion Selective Electrode (ISE), 1 m cable (Item ISENO318101)
- Intellical ISENO3181 Nitrate ( $\text{NO}_3^-$ ) Ion Selective Electrode (ISE), 3 m cable (Item ISENO318103)
- Intellical PHC201 Laboratory General Purposes Gel Filled pH Electrode, 1 m Cable (Item PHC20101)
- Intellical PHC201 Laboratory General Purposes Gel Filled pH Electrode, 3 m Cable (Item PHC20103)
- Intellical PHC705 Laboratory General Purpose RedRod Refillable Glass pH Electrode, 1 m Cable (Item PHC70501)
- Intellical PHC805 Laboratory General Purpose Refillable Glass pH Electrode, 1 m Cable (Item PHC80501)
- Intellical PHC725 Laboratory Low Ionic Strength Media RedRod Refillable Glass pH Electrode, 1 m Cable (Item PHC72501)
- Intellical PHC735 Laboratory Dirty Media RedRod Refillable Glass pH Electrode, 1 m Cable (Item PHC73501)
- Intellical PHC745 Laboratory Clogging Media RedRod Refillable Glass pH Electrode, 1 m Cable (Item PHC74501)
- Intellical PHC705 Laboratory High Alkalinity Range RedRod Refillable Glass pH Electrode, 1 m Cable (Item PHC705A01)
- Intellical PHC729 Laboratory Surface Measurements RedRod Refillable Glass pH Electrode, 1 m Cable (Item PHC72901)