



## HQ430D Laboratory Single Input, Multi-Parameter Meter - pH, Conductivity, Optical Dissolved Oxygen, ORP, and ISE with Electrode Stand

**Product #:** HQ430D.98.00012  
**AED Price:** Contact Hach

### Plug-and-Play with any two INTELICAL electrodes!

The digital meter/electrode system HQD combines reliability, flexibility and ease of use. Interchangeable Intellical electrodes are recognised automatically and store all relevant data.

#### 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 - 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..

#### 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.

---

## Specifications

Auto-buffer recognition:	Yes
Backlight:	Included
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
Casing IP rating:	IP54 (Resistant to spray of water; Dust-proof)
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 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
Conductivity measurement at stable reading:	Yes
Conductivity measurement range:	0.01 µS/cm - 200.0 mS/cm
Conductivity measurement: Temperature correction:	None; Linear; NaCl Non-Linear Natural Water.
Conductivity resolution:	0.01 µS/cm - 0.1 mS/cm upon selected measuring range
Contents:	Meter + Probe(s) stand
Custom calibration standards:	Yes
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:	Included
Environmental conditions: relative humidity:	90 % relative humidity (non-condensing)
Environmental conditions: temperature:	0 - 60 °C
GLP features:	Date; Time; Sample ID; Operator ID
Instrument:	Bench
ISE direct measurement:	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
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)
PC data transfer software :	Ion Selective Electrode (ISE): Ammonia, Ammonium, Chloride, Fluoride, Nitrate, Sodium HQD Series Meter Data Transfer Utility
pH Buffer Sets:	Colour-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
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?:	None
Resistivity measurement:	2.5 $\Omega$ .cm - 49 M $\Omega$ .cm
Resolution:	0.01 mg/L - 0.1 g/L upon measuring range.
Salinity measurement range:	0 - 42 (ppt) (‰)
Salinity resolution:	0.01 (ppt) (‰)
Sensor A:	NA
Sensor B:	NA
Sensor C:	NA
TDS measurement range:	0.00 mg/L - 50.0 g/L as NaCl
Temperature compensation:	Automatic Temperature compensation for pH
Temperature measurement range:	°C or °F
Temperature range:	-10 °C - 110 °C
Temperature resolution:	0.1 °C
Warranty:	36 months
Weight:	750 g without batteries; 850 g with batteries
What's included?:	HQ430D Laboratory Single Input, Multi-Parameter Meter - pH, Conductivity, Optical Dissolved Oxygen, ORP, and ISE. With electrode stand, 4 AA batteries, universal power adapter + cable, USB cable for data transfer, user manual. Without electrodes.

---

## What's included?

HQ430D Laboratory Single Input, Multi-Parameter Meter - pH, Conductivity, Optical Dissolved Oxygen, ORP, and ISE. With electrode stand, 4 AA batteries, universal power adapter + cable, USB cable for data transfer, user manual. Without electrodes.