

HQ411D Laboratory Single Input, pH/mV Meter - pH and ORP

Product #: **HQ411D.98.00002**

AED Price: Contact Hach

Digital Electrochemistry: Confidence in pH & ORP

Laboratory single channel meter for pH, mV ORP/Redox. Basic instrument without 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.

High Performance Laboratory bench pH Meter for efficient water quality parameters testing
High quality laboratory pH meter digitally deliver reliable measuring results with the aid of intelligent electrodes: Digital Intellical pH electrodes always measure correctly due to their integrated calibration memory. Intellical pH electrodes are recognized automatically and are interchangeable. This principle of mix + match makes sure you measure as reliable, flexible and simple as already known from the portable HQD pH meter range.

Optimal handling for every user
HQD laboratory bench instruments are easy to use thanks to the intuitively understandable user interface enabling one-touch measurements. Measuring intervals can be defined by the user. Progress of stabilization is automatically indicated on the display; readings are automatically logged.

Immediately understandable and easy to read
Large, illuminated graphic displays is easy to read, even in difficult light conditions. The instruments‘ key pads are icon-based and immediately understandable. User interface and operating instructions are available in multiple languages.

Complete Good Laboratory Practice (GLP) compliant communication and documentation
All the necessary information about each reading is automatically saved.

Enhance productivity 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.

Specifications

Auto-buffer recognition:	Yes
Backlight:	#
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
Contents:	Meter only

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
Electrode stand:	Optional
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
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:	HQ411D – pH/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)
PC data transfer software :	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
Sensor A:	NA
Sensor B:	NA
Sensor C:	NA
Temperature compensation:	Automatic Temperature compensation for pH
Temperature measurement range:	°C or °F
Temperature range:	-10°C - 110 °C

Temperature resolution:	0.1
Warranty:	36 months
Weight:	750 g without batteries; 850 g with batteries
What's included?:	HQ411D Laboratory Single Input, pH/mV Meter - pH and ORP. With 4 AA batteries, universal power adapter + cable, user manual. Without electrodes.

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Required Accessories

- Intellical PHC705 Laboratory General Purpose RedRod Refillable Glass pH Electrode, 1 m Cable (Item PHC70501)
- 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)