



## HQ411D Laboratory Single Input, pH/mV Meter - pH and ORP with Electrode Stand

Product #: HQ411D.98.00012

AED Price: Contact Hach

### Digital Electrochemistry: Confidence in pH & ORP

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.

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### Specifications

Auto-buffer recognition:	Yes
Backlight:	Included
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 + 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
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
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
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 °C
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 electrode stand, 4 AA batteries, universal power adapter + cable, user manual. Without electrodes.

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