



## HQ411D Laboratory Starter pH Meter Package with PHC201 General Purposes pH Electrode

**Product #:** 8507560  
**ZAR Price:** Contact Hach  
**Ships within 1 week**

Designed for water quality experts, the Hach HQ411D Laboratory pH-Meter is an advanced laboratory meter that takes the guesswork out of measurements. HQD 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 meters feature a simple user interface that does not require manuals or training to operate. The Intellical PHC201 is a digital robust plastic body, combination pH electrode with a non-refillable, gel-filled double-junction reference and built-in temperature sensor. PHC201 is intended for laboratory use. The PHC201 has a ceramic pin reference junction and is ideal for measuring pH in general water quality applications.

### Make your pH water laboratory quality parameters testing samples more efficient and flexible

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. Internal USB ports simplify data transfer, peripherals, and software updates and connection to PCs printer and keyboards.

### Complete convenient kit

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

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## Specifications

Automatic Buffer Recognition:	Yes
Calibration Intervals/Alerts/Reminder:	Off, selectable from 2 hours to 7 days
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) + Lab. Accessories + Reagents
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
Electrode Holder:	NA
Electrode stand:	Included
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)
Kit?:	Yes
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:	1
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:	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
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:	PHC20101
Sensor A:	PHC20101
Sensor B:	NA
Sensor C:	NA
Sensors:	Sensor A: PHC20101

	Sensor B: NA
	Sensor C: NA
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 HQ411D Laboratory pH Meter, Universal electrode Stand with electrode holder, PHC201 Standard Gel Filled pH Electrode with 1 m cable, pH Buffer Kit 4.01/7.00/10.01 (500 mL), pH electrode storage solution (500 mL), 4 Alkaline 1.5V AA batteries, Power Supply Adapter, Power Cord, and Operating Documentation

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