

PH-1* - pH Meter Accessory for iPhone®, iPod® & iPad®

* PATENT PENDING



- Measures pH with accuracy to .01 pH
- Displays both ambient and solution temperature
- Records measurements with timestamp and geographic coordinates
- View data history by date or location
- Sends readings by e-mail(individual or .csv file)

Measure and record pH values in the lab or field using the PH-1 accessory. The supplied app provides real time display of pH, millivolts, ambient temperature and solution temperature. Simply plug in the PH-1 to your iPhone®, iPod® or iPad® and follow instructions to download your FREE app from Apple™ App Store. The PH-1 requires operating system OS 4.0 or higher.

IOS4 and 5 Users – Simply attach the PH-1 to your device. You should be automatically prompted to download the free app.

IOS6 users – Attach the PH-1 to your Device. Go to the app store and search for pH Meter. Download the free app.

Newer devices with the lightning connector will need to use a 30 pin adapter which can be sourced from Apple.

Specifications

pH Measuring Range	0-14	
mV Measuring Range	-1250 to 1250mV	
Solution Temperature Range	0-100° C	
Ambient Temperature	0 to 40° C	
Accuracy/Resolution		
	pH	+/- 0.01pH**
	mV	+/- 1mV
	Soln Temp	+/- 0.1° C**
	Ambient Temp	+/- 2° C***
Analog to Digital	pH/mV	13bit
	Temperature	10bit
Power Supply	from iPhone/iPod or iPad	
Power Consumption		
	operating	<5mA****
	standby	<3mA
pH Sensor Connection	BNC	
Temperature Connection	3.5mm phono plug	
Temperature Sensor	30K NTC	

** After Calibration

*** Option +/- 0.5° C (0° C to 40° C) factory calibration

**** May consume more than 5mA during authentication (less than 2 seconds)

Notes:

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Applications:

Environmental testing and monitoring

When used with a GPS enabled device, the pH Meter app will record where and when your measurements were taken. Results can be grouped by location or date, and emailed to a central records office. Using the pH Meter app eliminates the chances or transcription errors.

Education

It is an excellent tool for teaching the chemistry of acids/bases, and introductory electrochemistry. Students can install the app on their own iPod or iPhone, and share a single sensor for experiments.

Industrial

Suitable for any process where pH measurements are routinely performed. By recording the pH value with a time stamp and location, this app eliminates any chance of mistakes when recording readings. Works with location aware devices to log the coordinates where readings were taken for analysis and auditing purposes.

Ordering Information

Part Number	Description
PH-1	pH Meter Accessory for iPhone/iPod (pH electrode sold separately, iPod iPhone or iPad not included).
S200C/BNC	Combination pH electrode epoxy body, 30" cable BNC connector
S293/30K/BNC/2.5	3-in-1 pH/Ref/ATC electrode for use with ODM PH-1.
PH1-200	Kit, includes 1 each pH-1, 1 each S200C/BNC pH electrode
PH1-293	Kit, includes 1 each pH-1, 1 each S293C 3-in-1 pH/Reference/ATC electrode
A090	Adapter for Lightning connector (iPhone5) to PH-1 pH meter (30 pin connector).

Parts covered by this product data sheet include:

PH-1, PH1-200, PH1-293

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Simultaneous display of pH and mV readings



Simultaneous display of Ambient and solution Temperature

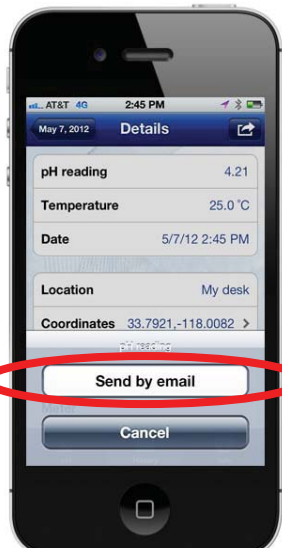


Allows for calibration with any number of pH buffers

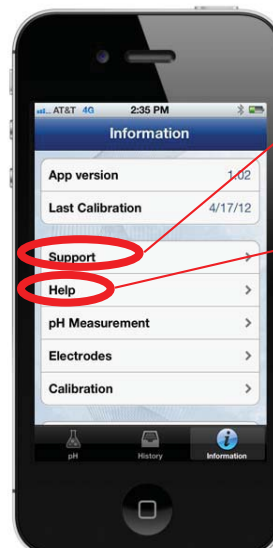
"Zero-point" calibration restores calibration to unity gain and zero offset



Stores pH data with time and date, location, electrode information and user ID



Sends data by-mail as .csv file



Includes Support and Warranty Information for Hardware, software and electrodes

Includes Help for taking measurements, recording readings details on temperature measurements