

# miniLab<sup>®</sup> Pocket pH Meters



## Applications

- Beverage
- Collection Systems
- Field Use
- Food QC Lab
- Oil & Gas
- Wastewater

## Virtually unbreakable non-glass pH meters give stable readings in seconds.

### Designed to Last

Unlike disposable pocket-sized pH meters, Hach's miniLab Pocket pH Meters contain a virtually unbreakable non-glass silicon chip sensor that gives stable readings in seconds.

Part of the H-Series family of non-glass probes, miniLab meters use ISFET (Ion-Sensitive Field Effect Transistor) sensor technology that contains several proprietary layers deposited selectively on a silicon substrate. The final layer possesses an affinity for hydrogen ions only. The quantity of hydrogen ions at or near the sensor surface causes an electrical effect that is detected and measured as pH.

All miniLab meters offer water proof (IP67) operation, automatic temperature compensation and economical measurement of small sample volumes. A replaceable reference electrode further extends the longevity of the meter.

### No Maintenance

The sensor stores dry, therefore requiring no storage solutions. To clean the meter, simply use a toothbrush and a detergent solution. After use, just replace the protective sensor cap.

### Operates in Restrictive and Challenging Environments

Non-glass pH probes offer convenience and ruggedness, excelling in applications such as food and beverage, academic teaching labs, environmental studies, medical, pharmaceutical, agriculture, and petrochemical.

### Three Models

All models contain the benefits described at left, with variations in calibration, display, and resolution as described in the table below:

Feature	Model H130	Model H135	Model H138
1-point Calibration	■		
1-, 2- or 3-point Calibration		■	■
Temperature Display	■	■	■
0.01 pH Resolution			■



*Calibration Buffer Set for the H138 miniLab Meter. Includes three 15 mL dropper bottles of each buffer.*

## Specifications\*

	H130	H135	H138
<b>Battery Operation</b>	Two 3v lithium batteries (CR2032) included		
<b>Battery Life</b>	Up to 200 hours continuous warning with 10 hour advance low battery and automatic power off		
<b>Temperature</b>	Range: 5 to 40°C; Automatic Resolution: 0.1°C or 0.1°F Accuracy: ±0.5°C		
<b>Display</b>	LCD with Temperature		
<b>IP Rating</b>	IP67		
<b>pH</b>	Suggested Range: 5.0 to 9.0 pH Range: 2.0 to 12.0 pH Resolution: 0.1 pH Repeatability: ± 0.1 pH Input Accuracy: ≤ 0.1 pH	Range: 2.0 to 12.0 pH Resolution: 0.1 pH Repeatability: ± 0.1 pH Input Accuracy: ≤ 0.1 pH	Range: 2.0 to 12.0 pH Resolution: 0.01 pH Repeatability: ± 0.03 pH Input Accuracy: ≤ 0.01 pH
<b>Calibration</b>	1-point	1-, 2-, or 3-point	1-, 2-, or 3-point
<b>Automatic Buffer Recognition</b>	pH 7.00 pH 6.86	pH 4.01, 7.00, and 10.01 pH 4.01, 6.86, and 9.18	pH 4.01, 7.00, and 10.01 pH 4.01, 6.86, and 9.18
<b>Dimensions</b>	155 x 33 x 20 mm (6 1/8" L x 1 1/4" W x 3/4" H)		
<b>Weight</b>	77 g (0.17 lbs.) -meter only		

\*Subject to change without notice.

## Ordering Information

### miniLab Pocket pH Meters with color-coded buffer sets

- H130** One Point Pocket pH Meter with 1-point calibration
- H135** Professional Pocket pH Meter with 1-, 2- or 3-point calibration
- H138** Elite Pocket pH Meter with 1-, 2- or 3-point calibration

### Accessories

- CB40** pH 7.00 Buffer Set for miniLab Meters. Includes three 15 mL dropper bottles.
- CB45** pH 4.01, 7.00 & 10.01 Buffer Set for miniLab Meters. Includes three 15 mL dropper bottles of each.
- 9316900** Replacement Reference Electrode for the H130, H135 & H138

**All miniLab models include required calibration pH buffer solutions and carrying case.**

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