



### Flat tip

The flat glass tip allows for direct pH measurement and prevents mash and cooled wort solids from collecting on the surface.

## Electrode Features

### Titanium body

The titanium body offers protection from accidental breakage. Rugged and resilient, the titanium works as an electronic shield protecting against interferences from electrical noise or humidity.

### Extractable cloth junction

The extractable cloth junction allows for clearing any clogging from solids that cause slow response and unstable readings. Pull 3 mm (1/8") to expose a fresh new junction surface for faster response times and reading stability.

### Fast, stable readings

The double junction design presents a silver-free electrolyte solution interacting with the sample, making the electrode less susceptible to clogging and guaranteeing a fast response and stable reading.

### Built-in Temperature Sensor

Built-in temperature sensor at the tip of the pH electrode allows for rapid determination of the sample temperature and a high-accuracy temperature reading.

\* Available with Hanna Lab App \*\*Measuring outside the recommended operating temperature range may damage the gel electrolyte and void product warranty. Note: The tester can display measurements from -2.00 to 16.00 pH. Measurements outside of the pH range will flash.

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HI9810312

# HALO2



Hanna Lab App  
Compatible

The Hanna Lab App is  
available on the App Store®  
and on Google Play.

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pH

HALO2

## Wireless pH Tester for Beer

with built-in specialized electrode

Accurate and easy to use, HALO2 Wireless pH Tester for Beer is ideal for pH measurement of mash, cooled wort, and beer samples. The HI9810312 can be used as a stand-alone pH tester or can be connected to the Hanna Lab App.

- The integrated Bluetooth module allows the tester to be connected to a compatible smart device with the Hanna Lab App
- Compact, waterproof casing, and automatic pH calibration at up to three points, or four points when used with the Hanna Lab App
- Automatically temperature compensated readings

HALO2 Specifications	HI9810312	
Range	pH	0.00 to 12.00 pH
	mV*	pH/mV conversion
	Temperature**	0.0 to 80.0 °C (32.0 to 176.0 °F)
Resolution	pH	0.01 or 0.1 pH
	mV*	0.1 or 1 mV
Accuracy	pH	±0.05 pH
	Temperature	±0.5 °C; ±0.9 °F
Calibration	Up to three points or four points *	
	Automatic buffer recognition with Standard buffers Hanna (pH 1.68 *, 4.01, 7.01, 10.01) or NIST (pH 1.68 *, 4.01, 6.86, 9.18)	
Temperature compensation	Automatic (ATC) or Manual (MTC) *	
Electrode	Body material	Titanium
	Glass	Low Temperature (LT)
	Junction	Cloth (extractable)
	Reference cell	Double, Ag/AgCl
	Electrolyte	Gel
	Tip / Shape	Flat
	Outer diameter	12 mm (0.47")
Length	110 mm (4.3")	
Battery type	CR2032 3V Lithium	
Battery life	Approximately 1000 hours (500 hours with Bluetooth enabled)	
Environment	0 to 50 °C (32 to 122 °F)	
IP rating	IP65	
Dimensions / Weight	51 x 185 x 21 mm (2 x 7.3 x 0.8") / 60 g (2.1 oz.)	
Ordering Information	<p><b>HI9810312</b> (HALO2) is supplied with a starter kit consisting of: pH 4.01 buffer solution sachet (2 pcs.), pH 7.01 buffer solution sachet (2 pcs.), Cleaning solution for brewing deposits sachet (2 pcs.), Electrode storage solution (dropper bottle), 3V Lithium battery - CR2032, Instrument quality certificate and Instruction manual</p>	