



HI780

Marine pH

Handheld Colorimeter

- Easier to use and more accurate than chemical test kits
- Dedicated to a single parameter
- Small size, big convenience

pH of ocean surface water is normally 7.5 to 8.5 pH. Over the years however, acidification tendency is to decrease 0.1 to 0.2 pH units/century. Acidification is a consequence of carbon dioxide (CO₂) absorption in seawaters and oceans. Carbon dioxide reacts with seawater to produce carbonic acid (H₂CO₃).

pH modifications affect marine life growth, reproduction, and communication. Hydrogen ions have a tendency to bond with carbonate to form bicarbonate. The greater attraction to carbonate over calcium can adversely affect skeleton building and can limit coral growth.

The HI780 Checker HC is a simple, accurate, and cost effective way to measure pH in seawater. Designed as a more accurate alternative to chemical test kits, this handheld colorimeter provides quick, accurate pH testing results.

Specifications	HI780
Range	6.3 to 8.6 pH
Resolution	0.1 pH
Accuracy	0.2 pH of reading @ 25 °C (77 °F)
Light Source	Light Emitting Diode @ 525 nm
Light Detector	Silicon photocell
Method	Colorimetric Adaptation of Phenol Red Method
Environment	0 to 50 °C (32 to 122 °F); max. 95% RH non-condensing
Battery Type	1.5V AAA Alkaline
Auto-off	After 10 minutes of non-use
Dimensions	86,0 x 61,0 x 37,5 mm (3,4 x 2,4 x 1,5")
Weight	64 g (2,3 oz)
Ordering Information	HI780 Checker HC is supplied with sample cuvette and cap (2 pcs.), Marine pH reagent starter kit, 1.5V AAA Alkaline battery (1 pc.), and instruction manual.
Reagent Set	HI780-25 Reagents for approximately 100 Marine pH tests
Calibration Set	HI780-11 Marine pH certified standard kit