



Marine pH Handheld Colorimeter





HI780 Checker®HC

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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.

- Ideal for aquariums and marine biology
- Easier to use and more accurate than chemical test kits
- Small size, big convenience

Specifications	HI780
Range	6.3 to 8.6 pH
Resolution	0.1 pH
Accuracy @ 25°C/77°F	±0.2 pH
Light Source	LED @ 525 nm
Light Detector	silicon photocell
Method	colorimetric adaptation of phenol red method
Auto-off	after ten minutes of non-use
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Battery Type	(1) 1.5V AAA
Ordering Information	HI780 Checker HC is supplied with sample cuvettes with caps (2), pH reagent starter set, battery, and instructions.
Accessories	HI780-25 Reagent set for approx. 100 tests HI780-11 Calibration set

