



HI764 • HI707 • HI708
Nitrite Low Range, High Range and Marine Nitrite Ultra Low Range
 Handheld Colorimeters

- Ideal for:
 - Aquaculture
 - Education
 - Water quality
 - Aquariums
 - Environmental
 - Wastewater

Nitrification is the biological oxidation of ammonia (ammonium ion) to nitrite, followed by the oxidation of nitrite to nitrate. The first step of this two-step process is carried out in an aquarium by nitrifying bacteria. During this quick process, the ammonium levels drop while the nitrite levels increase. Since nitrite is just as harmful as ammonia, nitrite levels should be maintained at immeasurable levels. A mature biological filter should be able to keep nitrite levels low.

Specifications	HI764 (Marine ULR)	HI707 (LR)	HI708 (HR)
Range	0 to 200 ppb NO ₂ -N	0 to 600 ppb NO ₂	0 to 150 ppm NO ₂
Resolution	1 ppb	1 ppb	1 ppm
Accuracy @ 25°C/77°F	±10 ppb ±4% of reading	±20 ppb ±5% of reading	±3 ppm ±5% of reading
Light Source	LED @ 525 nm	LED @ 470 nm	LED @ 575 nm
Auto-off	after two minutes of non-use	after ten minutes of non-use	
Method	adaptation of the EPA Diazotization method 354.1		adaptation of the Ferrous Sulfate method
Ordering Information	HI764 Checker®HC is supplied with sample cuvettes with caps (2), marine nitrite ULR reagent starter kit (reagents for 6 tests), battery, instructions and quick start guide. HI707 Checker®HC is supplied with sample cuvettes with caps (2), nitrite LR reagent starter kit (reagents for 6 tests), battery, instructions and quick start guide. HI708 Checker®HC is supplied with sample cuvettes with caps (2), nitrite HR reagent starter kit (reagents for 6 tests), battery, instructions and quick start guide.		
Reagent Set	HI764-25 (25 tests)	HI707-25 (25 tests)	HI708-25 (25 tests)
Calibration Set	HI764-11	HI707-11	HI708-11



HI713 • HI717
Phosphate
 Handheld Colorimeters

- Ideal for:
 - Aquaculture
 - natural, waste, agricultural and drinking waters

Orthophosphates are found in natural waters and wastewaters. They are commonly added to drinking water as a corrosion inhibitor. The instantaneous analysis of orthophosphates by colorimetric determination provides rapid results using a standard analysis technique.

Specifications	HI713 (LR)	HI717 (HR)
Range	0.00 to 2.50 ppm	0.0 to 30.0 ppm
Resolution	0.01 ppm	0.1 ppm
Accuracy @ 25°C/77°F	±0.04 ppm ±4% of reading	±1.0 ppm ±5% of reading
Light Source	LED @ 525 nm	
Auto-off	after two minutes of non-use	after ten minutes of non-use
Method	adaptation of the Ascorbic Acid method	adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th edition, Amino Acid method
Ordering Information	HI713 Checker®HC is supplied with sample cuvettes with caps (2), phosphate LR reagent starter kit (reagents for 6 tests), battery, instructions and quick start guide. HI717 Checker®HC is supplied with sample cuvettes with caps (2), phosphate HR reagent starter kit (reagents for 20 tests), battery, instructions and quick start guide.	
Reagent Set	HI713-25 (25 tests)	HI717-25 (40 tests)
Calibration Set	HI713-11	HI717-11