

HI746 · HI721 · HI7214

Iron Low Range and High Range

Handheld Colorimeters

- Easier to use and more accurate than chemical test kits
- Dedicated to a single parameter
- Small size, big convenience
- Ideal for:
 - Industrial ground and treated waters
 - Mining leachate monitoring
 - Agricultural irrigation water
 - Pools and spas

About 6.3% of the earth's crust is made of iron, of which 43% is in soils. The analysis of iron is often performed to monitor ground water and irrigation waters as a gauge of corrosion from industrial settling, and as an indication of the effectiveness of treatment from mining leachate.

The Hanna HI746, HI721, and HI7214 Checker®HC bridge the gap between simple chemical test kits and professional instrumentation. Chemical test kits are not very accurate and only give 5 to 10 points of resolution, while professional instrumentation can cost hundreds of dollars and can be time-consuming to calibrate and maintain. These meters are accurate, affordable, and produce immediate results.

The HI721 and HI7214 features a resolution of 0.01 ppm and ± 0.04 ppm $\pm 2\%$ of reading accuracy while the HI746 features 1 ppb resolution and ± 20 ppb $\pm 5\%$ of reading accuracy.

The contoured style of these meters fit in your palm or pocket perfectly and the large LCD is easy to read. The auto shut-off feature assures battery life will not be drained if you forget to turn it off.



Pool
Line

Specifications	HI746 (LR)	HI721 (HR)	HI7214 (HR)
Range	0 to 999 ppb	0.00 to 5.00 ppm	
Resolution	1 ppb	0.01 ppm	
Accuracy @25°C (77°F)	± 20 ppb $\pm 5\%$ of reading	± 0.04 ppm $\pm 2\%$ of reading	
Light Source	LED @ 575 nm	LED @ 525 nm	
Light Detector	silicon photocell		
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing		
Battery Type	1.5V AAA (1)		
Auto-off	after ten minutes of non-use	after ten minutes of non-use and two minutes after reading	
Dimensions	86.0 x 61.0 x 37.5 mm (3.4 x 2.4 x 1.5")		
Weight	64 g (2.3 oz)		
Method	adaptation of the TPTZ method. The reaction between iron and the reagent causes a violet tint in the sample.	adaptation of the Standard Methods for the Examination of Water and Wastewater, 20th edition, 3500-Fe B, Phenanthroline method. The re-action between iron and reagent causes an orange tint in the sample	
Ordering Information	<p>HI746 Checker®HC is supplied with sample cuvettes with caps (2), iron LR reagent starter kit (reagents for 25 tests), 25 mL glass cylinders with rubber cap (2), battery, and instructions.</p> <p>HI721 Checker®HC is supplied with sample cuvettes with caps (2), iron HR reagent starter kit (reagents for 6 tests), battery, and instructions.</p> <p>HI7214 Checker®HC is supplied with sample cuvettes with caps (2), iron HR reagent starter kit (reagents for 6 tests), battery, and instructions.</p>		
Reagent Set	HI746-25 (25 tests)	HI721-25 (25 tests)	HI721-25 (25 tests)
Calibration Set	HI746-11	HI721-11	HI721-11