

HI746 · HI721

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

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 and HI721 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 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 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 and 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.



Specifications	HI746 (LR)	HI721 (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) 1.5V AAA	
Auto-off	after ten minutes of non-use	after two 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)	
Method	adaptation of the TPTZ method	adaptation of the EPA Phenanthroline method 315B, for natural and treated waters
Ordering Information	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, instructions and quick start guide. HI721 Checker®HC is supplied with sample cuvettes with caps (2), iron HR reagent starter kit (reagents for 6 tests), battery, instructions and quick start guide.	
Reagent Set	HI746-25 (25 tests)	HI721-25 (25 tests)
Calibration Set	HI746-11	HI721-11