

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  $\pm 0.04$  ppm  $\pm 2\%$  of reading accuracy while the HI746 features 1 ppb resolution and  $\pm 20$  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)	$\pm 20$ ppb $\pm 5\%$ of reading	$\pm 0.04$ 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 three 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	Adaptation of Standard Method 3500-Fe B, Phenanthroline Method
Ordering Information	<p><b>HI746</b> 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.</p> <p><b>HI721</b> 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.</p>	
Reagent Set	<b>HI746-25</b> (25 tests)	<b>HI721-25</b> (25 tests)
Calibration Set	<b>HI746-11</b>	<b>HI721-11</b>