



HI 96741

Total Hardness and Iron, Low Range Portable Photometer



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- CAL CHECK™
- User calibration
- Certified calibration and verification standards
- BEPS (Battery Error Prevention System)
- TIMER function
- Auto shut-off
- GLP Features

In domestic water, iron can alter the taste and make it unpleasant to drink. It can also stain laundry, damage kitchenwares and favor the growth of certain bacteria. However, low levels of iron are critical in beverage production.

Hardness is a consequence of the type of rock layers which the water passes through and of its permanence in the water bearing stratum.

Hardness can cause pipe rusting in water heating and cooling systems, reverse osmosis and demineralization plants. It can also increase the consumption of soaps and detergents in industrial washing machines or laundries.

HI 96741 can provide critical measurements of low range iron and total hardness (magnesium and calcium).

The iron concentration in water needs to be monitored since it can become harmful above certain levels.

Hardness, on the other hand, is indicative of the presence of calcium and magnesium in water. By passing through various layers of soil and rocks, rain water dissolves some of the mineral substances.

With the portable HI 96741 you can monitor both iron and hardness levels.

Order Information:

HI 96741 is supplied with sample cuvettes with caps (2), 9V battery and instruction manual.

Specifications	Accessories	Downloads
Range	Total Hardness	0.00 to 4.70 mg/L (ppm)
	Iron LR	0 to 1.60 mg/L (ppm)
Resolution	Total Hardness	0.01 mg/L
	Iron LR	0.01 mg/L
Accuracy @25°C	Total Hardness	±0.11 mg/L ±5% of reading
	Iron LR	±0.01 mg/L ±8% of reading
Light Source		tungsten lamp

Light Detector		silicon photocell with narrow band interference filter @ 525 nm
Power Supply		9V battery
Auto-off		after ten minutes of non-use in measurement mode; after one hour of non-use in calibration mode; with last reading reminder
Environment		0 to 50°C (32 to 122°F); RH max 95% non-condensing
Dimensions		192 x 104 x 69 mm (7.6 x 4.1 x 2.7")
Weight		360 g (12.7 oz.)
Method	Total Hardness	adaptation of the Standard Methods for the Examination of Water and Wastewater, 18th ed.
	Iron LR	adaptation of TPTZ method