HI 96723 • HI 96749

Chromium VI HR and LR Portable Photometers

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

At normal temperatures chromium is corrosion-resistant. For this reason, it plays an important role in the plating industry as well as cooling towers. In addition, it has certain qualities that make it useful in the production processes of the textile industry.

The HI 96723 and HI 96749 meters measure the hexavalent chromium (Cr VI) content in water and waste waters samples.

The meters use an exclusive positive-locking system to ensure that the cuvette is in the same position every time it is placed into the measurement cell.

All compounds of chromium are colored; the most important are the chromates of sodium and potassium and the dichromates and the potassium and ammonium chrome alums. The dichromates are used as oxidizing agents in quantitative analysis, also in tanning leather.

Another compound of industrial value is lead chromate which is chrome yellow, a valuable pigment.

Chromium compounds are used in the textile industry as mordants, and by the aircraft and other industries for anodizing aluminum.

ORDERING INFORMATION

HI 96723 and **HI 96749** are supplied with sample cuvettes (2) with caps, 9V battery and instruction manual.

CAL CHECK™ standards and testing reagents sold separately

REAGENTS AND STANDARDS

HI 96723-11	CAL CHECK™ standard cuvettes
HI 96749-11	CAL CHECK™ standard cuvettes
HI 93723-01	Reagents for 100 tests
HI 93723-03	Reagents for 300 tests
HI 93749-01	Reagents for 100 tests
HI 93749-03	Reagents for 300 tests

SPECIFICATIONS	HI 96723 Chromium VI High Range	HI 96749 Chromium VI Low Range
Range	0 to 1000 µg/L (ppb)	0 to 300 µg/L (ppb)
Resolution	1 µg/L (ppb)	1 µg/L (ppb)
Accuracy @ 25°C (77°F)	±5 mg/L ±4% of reading	±1 mg/L ±4% 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	adaptation of the ASTM Manual of Water and Environmental Technology, D1687-92, diphenylcarbohyzide method. The reaction between Cr VI and reagents causes a purple tint in the sample	

The reagents are in powder form and are supplied in packets. The amount of reagent is precisely dosed to ensure the maximum repeatability.

For a complete list of Reagents, see Reagents *Section 18*.

HANNA instruments

With Great Products, Come Great Results™