

# HI 95761 • HI 95711 • HI 95724

Chlorine



## Free and Total Chlorine with Cal Check™

Total chlorine is given by the sum of free chlorine plus combined chlorine: free chlorine combines with nitrogen to produce chloramine (combined chlorine). Chloramine is harmful for aquatic life and damages water treatment plants that use membranes for water purification (e.g. reverse osmosis). Therefore it is important to monitor the level of free and/or total chlorine often.

The chloramine concentration in water depends on pH, temperature, the initial ratio of chlorine versus amine, chlorine demand and the time of reaction. Both forms of chlorine (free and combined) can exist at the same time, though they need to be measured separately.

- **HI 95711**: wide range for free and total chlorine.
- **HI 95761**: trace total chlorine for ionic-exchange membranes and resins.
- **HI 95724**: the same specifications of HI 95711 but uses liquid reagents.

Finally, instrument validation is possible at any time with Cal Check™ standard cuvetts.

### Specifications

	HI 95761	HI 95711	HI 95724
<b>Range</b>			
Free Chlorine	--	0.00 to 5.00 mg/L	0.00 to 5.00 mg/L
Total Chlorine	0.000 to 0.500 mg/L	0.00 to 5.00 mg/L	0.00 to 5.00 mg/L
<b>Resolution</b>	0.001 mg/L	0.01 mg/L	0.01 mg/L (0.10 mg/L over 3.50 mg/L)
<b>Precision</b>	±0.004 mg/L to 0.200 mg/L	±0.02 mg/L to 1.00 mg/L	±0.03 mg/L to 1.00 mg/L
<b>Light Source</b>	Tungsten lamp with narrow band interference filter 525 nm		
<b>Light Detector</b>	Silicon Photocell		
<b>Power Supply</b>	1 x 9V battery		
<b>Auto-off</b>	After 10 min of non-use in measuring mode After 1 hour of non-use in calibration mode		
<b>Environment</b>	0 to 50°C (32 to 122°F); RH max 95% non-condensing		
<b>Dimensions</b>	180 x 83 x 46 mm (7.1 x 3.3 x 1.8")		
<b>Weight</b>	290 g (10 oz.)		
<b>Method</b>	Adaptation of EPA 330.5 Method	USEPA 330.5 Method and Standard Methods 4500-Cl G	Adaptation of

### Accessories

<b>for HI 95761</b>		<b>HI 93711-03</b>	Powder reagents for 300 tests (Total Chlorine)
<b>HI 95761-01</b>	Powder reagents for 100 tests (total chlorine)	<b>HI 95711-11</b>	Cal Check™ standard cuvetts for HI 95711
<b>HI 95761-03</b>	Powder reagents for 300 tests (total chlorine)	<b>for HI 95724</b>	
<b>HI 95761-11</b>	Cal Check™ standard cuvetts for HI 95761	<b>HI 93701-T</b>	Liquid reagents for 300 tests of Total Chlorine
<b>for HI 95711</b>		<b>HI 93701-F</b>	Liquid reagents for 300 tests of Free Chlorine
<b>HI 93701-01</b>	Powder reagents for 100 tests (Free Chlorine)	<b>HI 93711-D3</b>	DPD3 reagent for 200 tests of Total Chlorine
<b>HI 93701-03</b>	Powder reagents for 300 tests (Free Chlorine)	<b>HI 95724-11</b>	Cal Check™ standard cuvetts for HI 95724
<b>HI 93711-01</b>	Powder reagents for 100 tests (Total Chlorine)		

For a comprehensive list of accessories, see sections U and V

### Ordering Information

HI 95761, HI 95711, HI 95724 are supplied complete with 2 measuring cuvetts, 9V battery and instructions.

HI 95761C, HI 95711C, HI 95724C kit includes the meter in a rugged carrying case, Cal Check™ standard and accessories.