## Mi404/Mi406/Mi413/Mi414

## Free & Total Chlorine and Chloride Photometers

Milwaukee provides a range of chlorine photometers for all applications: swimming pool treatments, household cleaners, dishwasher additives, laundry powders/liquids and cooling water treatment products all contain chlorine as an oxidizing biocide. Drinking water contains residual chlorine to maintain water purity throughout the supply lines.

Milwaukee offers 3 microprocessor-based instruments with greater resolution, better accuracy and immediate results. You can choose between three different models:

Mi404 for measuring free (0.00 to 5.00 mg/L) and total (0.00 to 5.00 mg/L) chlorine, Mi406 for measuring free (0.00 to 5.00 mg/L) chlorine and Mi413 for measuring free (0.00 to 10.00 mg/L) and total (0.00 to 10.00 mg/L) chlorine.

Chloride is a major constituent of sea water and is extremely corrosive in acidic environments. It requires close monitoring in applications such as marine boiler systems that are effected by seawater contamination.

Chlorides are used by the water treatment professional to determine cycles of concentration in low pressure boilers and cooling

It is essential to monitor chloride concentrations in boiler systems to prevent metal parts being damaged.

In high levels, chloride can corrode stainless steel.



Specifications	Mi404 Free & Total Chlorine	Mi406 Free Chlorine	Mi413 Free & Total Chlorine HR	Mi414 Chloride
Range Free Chlorine Total Chlorine Chloride	0.00 to 5.00 mg/L Cl <sub>2</sub> 0.00 to 5.00 mg/L Cl <sub>2</sub>	0.00 to 5.00 mg/L Cl <sub>2</sub>	0.00 to 10.00 mg/L Cl <sub>2</sub> 0.00 to 10.00 mg/L Cl <sub>2</sub>	0.00 to 20.00 mg/L Cl <sup>-</sup>
Resolution Free Chlorine  Total Chlorine  Chloride	0.01 mg/L (0.00 to 3.50 mg/L); 0.10 mg/L (above 3.50 mg/L); 0.01 mg/L (0.00 to 3.50 mg/L); 0.10 mg/L (above 3.50 mg/L)	0.01 mg/L (0.00 to 3.50 mg/L); 0.10 mg/L (above 3.50 mg/L)	0.01 mg/L (0.00 to 3.50 mg/L); 0.10 mg/L (above 3.50 mg/L 0.01 mg/L (0.00 to 3.50 mg/L); 0.10 mg/L (above 3.50 mg/L)	0.01 mg/L
Accuracy Free Chlorine Total Chlorine Chloride	±0.04 mg/L @1.50 mg/L ±0.04 mg/L @1.50 mg/L	±0.04 mg/L @1.50 mg/L	±0.10 mg/L @5.00 mg/L ±0.10 mg/L @5.00 mg/L	±0.4 mg/L @10.0 mg/L
Method	adaptation of the USEPA method 330.5 and Standard Method 4500-Cl G	adaptation of the USEPA method 330.5 and Standard Method 4500-Cl G.	adaptation of the USEPA method 330.5 and Standard Method 4500-Cl G.	adaptation of mercury (II) thiocyanate method
Light Source	tungsten lamp	tungsten lamp	tungsten lamp	Blue LED 466 nm
Light Detector	silicon photocell and 525 nm narrow band interference filter	silicon photocell and 525 nm narrow band interference filter	silicon photocell and 525 nm narrow band interference filter	silicon photocell and 466 nm narrow band interference filter
Environment	0 to 50°C / 32 to 122°F; max RH 100%	0 to 50°C / 32 to 122°F; max RH 100%	0 to 50°C / 32 to 122°F; max RH 100%	0 to 50°C / 32 to 122°F; max RH 100%
Battery Type	1 x 9V	1 x 9V	1 x 9V	1 x 9V
Auto-off	after 10 minutes of non-use	after 10 minutes of non-use	after 10 minutes of non-use	after 10 minutes of non-use
Dimensions	192 x 104 x 52 mm	192 x 104 x 52 mm	192 x 104 x 52 mm	192 x 104 x 52 mm
Weight	380 g	380 g	380 g	380 g

## **Accessories**

Mi504-100 Free & Total Chlorine reagent set

(100 tests)

Mi506-100 Free Chlorine reagent set (100 tests) Mi513-045 Free & Total Chlorine reagent set

(45 tests)

Mi514-100 Chloride reagent set (100 tests)





Glass cuvets (2 pcs)

9V battery (1 pc)

Caps for cuvets (2 pcs)

Stoppers for cuvets (2 pcs)

Tissue for wiping cuvets (4 pcs)









## **Ordering Information**

Mi404, Mi406, Mi413 and Mi414 are supplied complete with 2 cuvets, reagents, hard carrying case, wiping tissue, 9V battery and instructions.



Mi0001

Mi0002

Mi0003

Mi0004

Mi0005