USER MANUAL

MI 404

Free & Total Chlorine Meter



Dear Customer,

Thank you for choosing a Martini product. This manual will provide you with the necessary information for the correct use of the instrument. Please read it carefully before using the meter.

This instrument is in compliance with < € directives

Range 0.00 to 5.00 mg/L Cl₂ Resolution 0.01 mg/L (0.00-3.50 mg/L); 0.10 mg/L (above 3.50 mg/L) 0.10 mg/L (above 3.50 mg/L) Precision ±0.04 mg/L @ 1.50 mg/L Light Source Tungsten lamp Light Detector Silicon Photocell and 525 nm narrow band interference filter Method Adaptation of the USEPA method 330.5 and Standard Method 4500-Cl G. Environment 0 to 50°C (32 to 122°F); 100% RH max. Battery Type 1 x 9 volt Auto-Shut off After 10' of non-use Dimensions 192 x 104 x 52 mm (7.5 x 4.1 x 2") Weight 380 g	SP	SPECIFICATIONS:
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etector Iment Type hut off sions	Light Source	Tungsten lamp
Iment / Type / thut off sions	Light Detector	Silicon Photocell narrow band inter
rment / Type hut off sions	Method	Adaptation of method 330.5 a Method 4500-CI
hut off	Environment	0 to 50°C (32 to 100% RH max.
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sions	Auto-Shut off	After 10' of non-
	Dimensions	192 x 104 x 52 (7.5 x 4.1 x 2")
	Weight	380 g

MEASUREMENT PROCEDURE

- 1. Turn the meter on by pressing ON/OFF.
- 2. When the LCD displays "- -", the meter is ready.
- 3• Fill the cuvet with 10 mL of unreacted sample, up to the mark, and replace the cap.

11. The instrument directly displays concentra-

tion in mg/L of free chlorine.

12• Then, for total chlorine measurement, re-

sample 3 drops of DPD 3. Replace the cap move the cuvet and add to the reacted

and swirl gently.

10 Press READ and "SIP" will blink during

measurement.

cap is positioned securely into the groove. holder and ensure that the notch on the 9• Immediately reinsert the cuvet into the

- 4. Place the cuvet into the holder into the groove. and ensure that the notch on the cap is positioned securely
- 5• Press ZERO and "SIP" will blink on the display.
- 6• After a few seconds the dis-play will show "-0.0-". The meter is now zeroed and ready for measurement.



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Reinsert the cuvet into the holder and en-

sure that the notch on the cap is posi-

tioned securely into the groove.



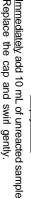








8• For free chlorine measurement: add 3 drops of DPD 1 indicator and 3 drops of 7• Remove the cuvet. DPD 2 buffer to an empty cuvet.



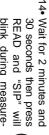


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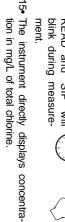












- Interferences
- Bromine (positive error)
- Chlorine dioxide (positive error)
- lodine (positive error)
 Oxidized Manganese (positive error)
 Chromium (positive error)
- Ozone (positive error)

- develop the full amount of color or it may above 150 mg/L CaCO₃ will not reliably Alkalinity above 250 mg/L CaCO₃ or acidity
- diluted HCl or NaOH. To resolve this, neutralize the sample with
- for approximately 2' after adding the reagent than 500 mg/L CaCO₃, shake the sample In case of water with hardness greater

GUIDE TO DISPLAY CODES

second each time the instrument is turned on This prompt appears for 1

The dashes "- - -" indicates

debris.

Sampling In Progress. Flashstate and zeroing can be perthat the meter is in a ready formed.

time the meter is performing a ing "SIP" prompt appears each 00-

roed state and measurement can be performed. "-0.0-", the meter is in a ze-- 0.0 -

measurement.

က် ō

ting low and the battery that the battery voltage is getneeds to be replaced. The blinking "BAT" indicates

meter will lock up. Change the indication is displayed, the must be replaced. Once this "-bA-", the battery is dead and

battery and restart.

68

dealer or the nearest Martini configuration. Contact your "Conf", the meter has lost its Customer Service Center.



"0.00" indicates that the sample absorbs less light Under range. A blinking

make sure you use the

Check the procedure and than the zero reference

0.00

same cuvet for reference

(zero) and measurement.

ERROR MESSAGES

On zero reading

ratio. In this case press Blinking "-0.0-" indicates that due to a low signal-to-noise the zeroing procedure failed ZERO again.

00-

A flashing value of the

- sample does not contain any not adjust the light level. Please check that the "no L", the instrument can-0
- ment. Please check the "L Lo", there is not enough light to perform a measure-

0

preparation of the zero preparation of the zero cuvet. "L Hi", there is too much ment. Please check the light to perform a measure-



On sample reading

cuvet.

"-SA-", there is too much the right sample cuvet is insurement. Please check if light for the sample mea-

58-

"Inv", the sample and the zero cuvet are inverted

200

serted.

cedure for zeroing the tion in the measurement pronot taken. Follow the instruc-"ZErO", a zero reading was 28-8

Battery replacement must only take place in a

Simply rotate the battery cover on the back of the meter.

while paying attenfresh 9V battery polarity. Insert the terminals and attach place the cover. battery and retion to the correct Detach the battery from the

ACCESSORIES:

MI0001 MI504-100 Free & Total Chlorine (100 tests)

MI0003 MI0002 Glass cuvets (2 pcs) Stoppers for cuvets (2 pcs) Caps for cuvets (2 pcs)

(4 pcs) Tissue for wipping cuvets

MI0004

MI0005

9V battery (1 pc)

the sample is beyond the

the sample and re-run the programmed range: dilute dition. The concentration of dicates an over range conmaximum concentration in-

BATTERY REPLACEMENT

non-hazardous environment

WARRANTY

from the date of purchase. rials and manufacturing for a period of two years This instrument is warranted against defects in mate-

gence or erroneous operation by the user, please return the meter to either distributor or our office in the original packing and the repair will be free of is required, where the damage is not due to negli-If during this period the repair or replacement of parts

ack of prescribed maintenance are not covered. Damages due to accidents, misuse, tampering

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