USER MANUAL

MI 406

Free 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

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

MEASUREMENT PROCEDURE

- 2. When the LCD displays "- -", 1. Turn the meter on by pressing ON/OFF.
- the meter is ready.
- 3. Fill the cuvet with 10 mL of mark, and replace the cap.
- 4• Place the cuvet into the holder into the groove. the cap is positioned securely and ensure that the notch on
- 5. Press ZERO and "SIP" will blink on the display.
- 6. Wait a few seconds and the ready for measurement. display will show "-0.0-". The meter is now zeroed and















Remove the cuvet from the meter.

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Add 3 drops of DPD 1 indicator and 3 drops of DPD 2 buffer to an empty cuvet. Replace the cap and shake gently. Immediately add 10 mL of unreacted sample.



ISTMI406 03/05





- 9. Replace the cuvet into the holder and ensure that the notch on the cap is positioned securely into the groove.
- 10• Press READ and "SIP" will blink during measurement.
- 11. The instrument directly displays the concentration in mg/L of free chlorine.

Interferences

- Positive error:
- Bromine
- Chlorine Dioxide
- Oxidized Manganese and Chromium
- Ozone
- develop the full amount of color or it may above 150 mg/L CaCO₃ will not reliably rapidly fade. Alkalinity above 250 mg/L CaCO₃ or acidity

diluted HCI or NaOH. To resolve this, neutralize the sample with

than 500 mg/L CaCO₃, shake the sample for approximately 2' after adding the powder reagent. In case of water with hardness greater



GUIDE TO DISPLAY CODES.

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

CALCEM BONTH DAY

state and zeroing can be per-The dashes "- - -" indicates that the meter is in a ready

formed.

1 1

ing "SIP" prompt appears each Sampling In Progress. Flashmeasurement. time the meter is performing a



"-0.0-", the meter is in a ze-The blinking "BAT" indicates can be performed roed state and measurement



"-bA-", the battery is dead and that the battery voltage is getto be replaced. ting low and the battery needs



On sample reading

cuvet.

"-SA-", there is too much

light for the sample mea-

-88-

must be replaced. Once this indication is displayed, the battery and restart the meter. meter will lock up. Change the



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

- 89

"Inv", the sample and the

the meter.

ment procedure for zeroing struction in the measurenot taken. Follow the in-"ZErO", a zero reading was zero cuvet are inverted.

732

CO

the right sample cuvet is surement. Please check if

Customer Service Center.

ERROR MESSAGES

On zero reading

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



any debris. sample does not contain Please check that the "no L", the instrument can not adjust the light level



A flashing value of the maxi-

mum concentration indicates

00

cuvet for reference (zero)

Check the procedure and

0.00

make sure you use the same than the zero reference.

and measurement.

"L Lo", there is not enough preparation of the zero ment. Please check the light to perform a measure-

> sample and re-run the test. grammed range: dilute the sample is beyond the pro-The concentration of the an over range condition.

MI0005

9V battery (1 pc)



cuvet.

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



non-hazardous environment. Battery replacement must only take place in a

9V battery while and attach a fresh and replace the from the terminals Detach the battery cover. Insert the battery paying attention to the correct polarity.

200



ACCESSORIES.

Under range. A blinking

"0.00" indicates that the

sample absorbs less light

MI506-100 Free Chlorine (100 tests)

MI0001 Glass cuvets (2 pcs)

MI0002

Caps for cuvets (2 pcs)

MI0003 Stoppers for cuvets (2 pcs)

MI0004 (4 pcs) Tissue for wipping cuvets

BATTERY REPLACEMENT

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

WARRANTY

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

is required, where the damage is not due to negli-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 if during this period the repair or replacement of parts

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

ISTMI406 03/05