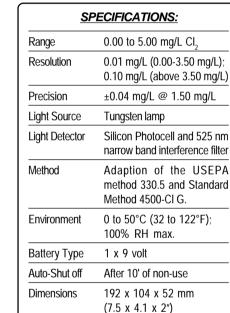
USER MANUAL MI 406 Free Chlorine Meter



380 g

ISTMI406 03/05



MARTINI instruments

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Dear Customer.

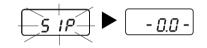
Weiaht

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.

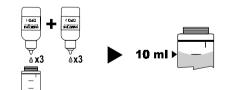
This instrument is in compliance with **C€** directives.

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



- 7. Remove the cuvet from the meter.
- 8• Add 3 drops of DPD 1 indicator and 3 drops of DPD 2 buffer to an empty cuvet. Immediately add 10 mL of unreacted sample. Replace the cap and shake gently.



- 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.



10 ml

Interferences

- Positive error:
 - Bromine
 - Chlorine Dioxide
 - lodine
- Oxidized Manganese and Chromium
- Ozone
- Alkalinity above 250 mg/L CaCO₃ or acidity above 150 mg/L CaCO₃ will not reliably develop the full amount of color or it may rapidly fade.
 - To resolve this, neutralize the sample with diluted HCl or NaOH.
- In case of water with hardness greater than 500 mg/L CaCO₃, shake the sample for approximately 2' after adding the powder reagent.

GUIDE TO DISPLAY CODES:

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



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



Sampling In Progress. Flashing "SIP" prompt appears each time the meter is performing a measurement.

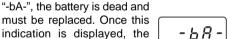


"-0.0-", the meter is in a zeroed state and measurement can be performed.

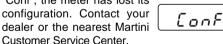


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The blinking "BAT" indicates that the battery voltage is getting low and the battery needs to be replaced.



indication is displayed, the meter will lock up. Change the battery and restart the meter. "Conf", the meter has lost its



ERROR MESSAGES

On zero reading

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



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



"L Lo", there is not enough light to perform a measurement. Please check the preparation of the zero cuvet.



"L Hi". there is too much light to perform a measurement. Please check the preparation of the zero cuvet.



On sample reading

"-SA-". there is too much light for the sample measurement. Please check if the right sample cuvet is inserted.



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



"ZErO", a zero reading was not taken. Follow the instruction in the measurement procedure for zeroing the meter.



- Under range. A blinking "0.00" indicates that the sample absorbs less light than the zero reference. Check the procedure and make sure you use the same cuvet for reference (zero) and measurement.
- · A flashing value of the maximum concentration indicates an over range condition. The concentration of the sample is beyond the programmed range: dilute the sample and re-run the test.







ACCESSORIES:

MI506-100 Free Chlorine (100 tests)

MI0001 Glass cuvets (2 pcs)

MI0002 Caps for cuvets (2 pcs)

MI0003 Stoppers for cuvets (2 pcs)

MI0004 Tissue for wipping cuvets

(4 pcs)

9V battery (1 pc) MI0005

BATTERY REPLACEMENT

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

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

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



WARRANTY

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

If during this period the repair or replacement of parts is required, where the damage is not due to negligence 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

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

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