USER MANUAL

MI 408

Iron High Range 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 (Edirectives

SPECIFICATIONS:

0.00 to 5.00 mg/L Fe Range

Resolution 0.01 mg/L

Precision ±0.03 ma/L @ 1.50 ma/L **Light Source** Tungsten lamp

Light Detector Silicon Photocell and 525 nm narrow band interference filter

Method Adoption of the USEPA method 315 B and Standard method 3500 - Fe B

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

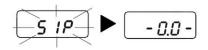
M Milwaukee

MEASUREMENT PROCEDURE:

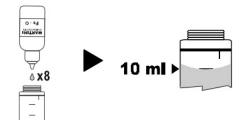
- 1. Turn the meter on by pressing ON/OFF.
- 2. When the LCD displays "- -", the meter is ready.

10 ml

- 3• Fill the cuvet with 10 mL of sample, up to the mark, and replace the
- 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. After a few seconds the display will show "-0.0-". The meter is now zeroed and ready for measurement.



- 7. Remove the cuvet. Open it.
- 8. Add 8 drops of Fe-0 reagent and shake gently.



- 9. Reinsert the cuvet into the holder and ensure that the notch on the cap positioned securely into the groove.
- 10•Press and hold READ for 3 seconds and the display will show the countdown prior to the measurement.



wait for 5 minutes and just press READ. In both cases "SIP" will blink during measurement.

11•The instrument directly displays concentration in mg/L of iron.



- Alkalinity above 1,000 mg/L (CaCO3) will slow down color development. To resolve neutralize the sample with diluted
- Calcium (Ca2+) above 1,000 mg/L (CaCO3)
- Magnesium (Mg2+) above 10,000 mg/L (CaCO3).
- Molybdate, Molybdenum above 25 ma/L
- High Sulfide (S2+) concentration.
- Silica (SiO2) above 100 mg/L may slow down color development.







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.



SAL OFM 8.8.8.8

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

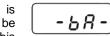


"-0.0-", the meter is in a zeroed state and measurement can be performed.



- 0.0 -

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



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



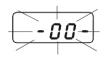
"Conf". the meter has lost its configuration. Contact your dealer or the nearest Martini Customer Service Center.

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 can not adjust the light level. Please check that the sample does not contain any debris.

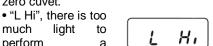


Lo

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

much light

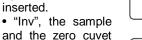
perform



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.



are inverted. • "ZErO". a zero reading was not -58-

Inu

2E - 0

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

0.00

5.00

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.

MI508-100 Iron high range reagent

(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)

MI0005 9V battery (1 pc)

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. ACCESSORIES:

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 charge.

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