USER MANUAL

Phosphate Low Range Meter MI 412



ISTMI412 03/05

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

SF	SPECIFICATIONS:
Range	0.00 to 2.50 mg/L PO ₄
Resolution	0.01 mg/L
Precision	±0.04 mg/L @ 1.00 mg/L
Light Source	Tungsten lamp
Light Detector	Silicon Photocell and 610 nm narrow band interference filter
Method	Adaptation of ascorbic acid method.
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

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.



6. After a few seconds the dismeter is now zeroed and play will show "-0.0-". The ready for measurement.



















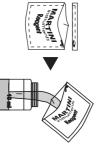






7. Remove the cuvet. Open it.

8. Add the content of one packet of MI512-0 reagent.



- 9. Replace the cap and swirl groove. sure that the notch on the cap cuvet into the holder and enpletely dissolved. Reinsert the gently untill the powder is com- (/ is positioned securely into the
- 10. Press and hold READ for 3 and just press READ. In both cases "SIP" will blink during Alternatively, wait for 3 minutes show the countdown prior to seconds and the display will

the measurement.



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

measurement.

Interferences

- Iron above 50 mg/L
- Silica above 50 mg/L
- Silicate above 10 mg/L
- Copper above 10 mg/L
- and highly buffered samples also interfere. Hydrogen sulfide, arsenate, turbid sample

GUIDE TO DISPLAY CODES

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

CAL CFM 8.8.8.8.8

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

1

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

S 0.0 -70

"L Lo", there is not enough

preparation of the zero

ment. Please check the

70

light to perform a measure-

cuvet.

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

that the battery voltage is The blinking "BAT" indicates **N** ō

getting low and the battery needs to be replaced.

"-bA-", the battery is dead and must be replaced. Once this indication is displayed, the battery and restart the meter. meter will lock up. Change the -88-

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

Conf

inserted.

Customer Service Center.

ERROR MESSAGES

On zero reading

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



sample does not contain any debris. "no L", the instrument cannot adjust the light level Please check that the 0



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



On sample reading

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



- zero cuvet are inverted.
- "ZErO", a zero reading was not taken. Follow the instruction in the measurement procedure for zeroing

28-0

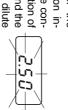
the meter.



sample absorbs less light same cuvet for reference Check the procedure and make sure you use the "0.00" indicates that the than the zero reference (zero) and measurement.



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



ACCESSORIES:

Under range. A blinking

MI0001 MI512-100 Phosphate low range re-Glass cuvets (2 pcs) agent (100 tests)

MI0004 MI0002 MI0003 Caps for cuvets (2 pcs) Stoppers for cuvets (2 pcs) Tissue for wipping cuvets

MI0005 9V battery (1 pc)

BATTERY REPLACEMENT

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

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

and replace the attention to the battery while paying nals and attach a fresh 9V Insert the battery correct polarity. Detach the battery from the termi-

WARRANTY

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

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

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

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