USER MANUAL

MI 405

Ammonia Medium 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 < € directives

380 g	Weight
192 x 104 x 52 mm (7.5 x 4.1 x 2")	Dimensions
After 10' of non-use	Auto-Shut off
1 x 9 volt	Battery Type
0 to 50°C (32 to 122°F); 100% RH max.	Environment
Adaptation of Nessler method	Method
Silicon Photocell and 466 nm narrow band interference filter	Light Detector
Blue LED 466 nm	Light Source
±0.10 mg/L @ 5.00 mg/L	Precision
0.01 mg/L	Resolution
0.00 to 9.99 mg/L (NH ₃ -N)	Range
SPECIFICATIONS:	SF

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 sample, up to the mark, and replace the cap.
- 4• Place the cuvet into the holder the cap is positioned securely and ensure that the notch on 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 for measurement. meter is now zeroed and ready









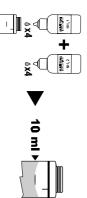




- Remove the cuvet. Open it.
- seawater analysis) and swirl gently. Add 4 drops of NH₃-1 (10 drops in case of

ထ္ 7.

9• Add 4 drops of NH₃-2 (10 drops in case of seawater analysis). Replace the cap and swirl gently.



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- the notch on the cap is positioned securely into the groove.

 11• Press and hold READ for 3 seconds and the display will 10• Immediately reinsert the cuvet // into the holder and ensure that "
- show the countdown prior to Alternatively, wait for 3 minutes the measurement.





- 12. The instrument directly displays the concentration in mg/L of ammonia nitrogen (NH₃-N).
- 13• To convert the reading to mg/L of ammonia (NH₃), multiply by a factor of 1.216.

nterferences

- ous aliphatic and aromatic amines, glycine, (positive error). Organic compounds like: chloramines, vari-
- To eliminate these interferences distillation
- is required. Organic compounds like: aldehydes, alcohols (e.g. ethanol) or acetone (negative error). To eliminate these interferences distillation
- Sulfide (S²-): may cause turbidity
- Hardness above 1 g/L as Calcium Carbonate

GUIDE TO DISPLAY CODES

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

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

1 1

time the meter is performing a measurement. ing "SIP" prompt appears each Sampling In Progress. Flash-9

"-0.0-", the meter is in a zeroed 1 · 0.0 -

that the battery voltage is get-The blinking "BAT" indicates state and measurement can

cuvet.

preparation of the zero ment. Please check the

be performed.

ting low and the battery က် 70

needs to be replaced.

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

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

Customer Service Center.

5008

ERROR MESSAGES

On zero reading

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



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



"L Lo", there is not enough

light to perform a measure

0

the sample and re-run the

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

On sample reading

cuvet.

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



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

inserted.



struction in the measure-"ZErO", a zero reading was ment procedure for zeroing not taken. Follow the in-

28-0

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

A flashing value of the the sample is beyond the dicates an over range condition. The concentration of maximum concentration inprogrammed range: dilute

999

MI0005

9V battery (1 pc)

BATTERY REPLACEMENT

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

Simply rotate the battery cover on the back of

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

ACCESSORIES:

MI505-100 Ammonia MR Reagent (100 tests)

MI0003 MI0002 MI0001 Glass cuvets (2 pcs) Stoppers for cuvets (2 pcs) Caps for cuvets (2 pcs)

(4 pcs) Tissue for wipping cuvets

MI0004

WARRANTY

from the date of purchase. This instrument is warranted against defects in materials 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 If during this period the repair or replacement of parts

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