# USER MANUAL MI 415 Turbidity 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  $\boldsymbol{\mathsf{CE}}$  directives.

SPECIFICATIONS:		
Range	0.00 to 50.00 FNU 50 to 1000 FNU	
Resolution	0.01 FNU and 1 FNU	
Precision	$\pm 0.5 FNU$ or $\pm 5\%$ of reading, whichever is greater	
Light Source	High emission infrared LED	
Light Detector	Silicon Photocell	
Method	Detection of scattered light	
Environment	0 to 50°C (32 to 122°F); 100% RH max.	
Battery Type	1 x 9 volt	
Auto-Shut off	After 5' 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.
- Fill a clean, dry cuvet with sample + up to the mark.
- 4• Replace the cap.
- 5• Clean the cuvet with a lintfree cloth to remove any fingerprints, dirt or waterspots.
- 6• Place the cuvet into the holder and ensure that the notch on the cap is positioned securely into the groove.
- 7• Press READ/ ▲ and "SIP" will blink during measurement.

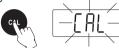


8• The instrument directly displays turbidity in FNU units.



# CALIBRATION PROCEDURE:

- Turn the meter on by pressing ON/OFF. When the LCD displays "- - -", the meter is ready.
- 2• Press CAL key and "CAL" will blink on the display.



3• Press CAL key again. The date of calibration in MM.DD format appears on the LCD.



- 4• To toggle between month and day press DATE/ ► key.
- 5• To change the date press READ/ ▲ key.
- 6• To confirm the date values press CAL key.

A blinking ZERO message will appear on the LCD. Insert the 0 FNU standard and press CAL key. "SIP" will blink during measurement.

CAL



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7• At the end the blinking "10.00" message will appear on the LCD.

Insert the 10 FNU standard and press CAL key. "SIP" will blink during measurement.



8• The blinking "500" message will appear on the LCD.

Insert the 500 FNU standard and press CAL kev. "SIP" will blink during measurement.



9• At the end of the reading the instrument goes directly to measurement mode. Now the instrument is calibrated and ready to use.

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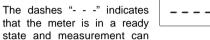
Note: A monthly calibration is recommended.

The instrument can be checked with the supplied standard solutions each day.

To check the date of the last calibration simply press DATE/ ► key.

### GUIDE TO DISPLAY CODES:

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



be performed.

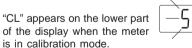
Sampling In Progress. Flash-		
ing "SIP" prompt appears each		
time the meter is performing a		
measurement.		

The presence of battery icon on the display 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	- 86
indication is displayed, the	
meter will lock up. Change the	

battery and restart the meter. "CAL", the meter is in calibration mode. If the CAL key is

not pressed within 6 seconds, the meter will automatically switch to idle mode.



## 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:

MI0004	Tissue for wiping cuvets (4 pcs.)
MI0005	9V battery (1 pc.)
MI0011	10 mL glass cuvete (2pcs.)
MI0012	cap for 10 mL glass cuvet (2 pcs.)
MI0013	Stopper for 10 mL glass cuvet (2 pcs.)
MI515-000	Calibration standards: 0, 10, 500FNU (3 x 30 mL dropper bottles)

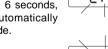
#### WARRANTY

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.

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