USER MANUAL

Multipurpose Digital Meter SM 01

Dear Customer,

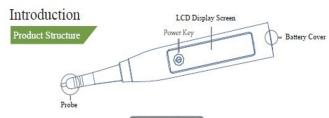
Thank you for purchasing our product, please read this manual carefully in order to properly use this product and for your own safety.

Range of Application

This product only fit for measuring specific gravity of marine water. If it's applied to liquid other than salt water, measure value might be different than actual value.

Features

- * Large Color LCD Display Screen
- * High Resolution Measurement Reading
- * Precision Measurement Value
- * Automatic Temperature Compensation
- * Water Temperature and TDS Reading
- * Vibration Alarm for Test Start and Completion
- * Low Battery Reminding Function





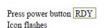
Specification

Work Theory	Electronic Conductivity Measurement
Measure Range	Temperature : $0^{\circ}\text{C} \sim 50^{\circ}\text{C}$ Salinity: $0 \sim 50\text{PPT}$ Specific gravity : $1.000 \sim 1.043$ TDS $1 \sim 300 \text{ ppm}$
Resolution	Temperature: 0.1°C Salinity: 0.1PPT Specific gravity: 0.001
Tolerance	Temperature :±1.0°C Salinity :±1.5PPT Specific gravity :±0.001 TDS: ±3% of FS
Measure environment	0°C~50°C
Energy Saving Feature	Automatically Shut Down after 1 minute
Temperature Compensa	tion Automatic Temperature Compensation
Display Screen	Color LCD Display Screen
M M	eter vibrates once means it's ready test starts eter vibrates twice and measure value flash twice when test finish easure value blinks twice and display on screen stably
Battery Replacement R	eminding Low icon flashes
Power supply	1.5V*2EA (AAA battery)

Application Guide

Measuring method







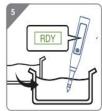
Dip the probe into testing solution, MEAS icon flashes, device vibrates once and measuring starts



Measuring finished, device vibrates twice and the measured S.G. & Temp value blinks twice at the same time, then display on LCD screen stably



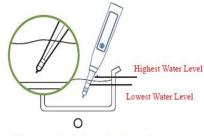
Press power key once Salinity PPT Value shows up without cleaning probe, in order on LCD, press power key again, TDS value show up, press power key once again, device turns off

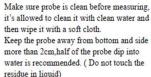


Repeatedly test is available to get a higher precision measure result , cleaning probe is recommended before continuing next round test. Measurement should be started when RDY icon flashes



After measurement finished, please clean the probe with neutral liquid or clean water and dry it up with the soft cloth and storage it properly







Keep the probe away from fish or other creatures (contains other solid items) for an accurate measure

Calibration

Calibration need to be proceed carefully as it will directly affect measure value. Before calibration, test the calibration solution contained in the package box, if measured salinity ppt value is out of 35±2PPT, then manual calibration is necessary. Recommend to use new standard 35 PPT salinity liquid because it can be polluted by a long term storage or water evaporation.







Long press power key When" C-5L "display on When calibration is LCD ,dip the probe into completed, 35.0PPT 35ppt standard solution will show up on



screen, then press power key once and turn it off



During the calibration (measure), make sure the probe dip into water vertically and locate in the center of the solution container. Put the probe in 2.5cm water depth 1cm away from the container wall and 0.5cm from the container bottom

- (1) Keep away from fire, heaters and other hot objects
- 2Be careful of burns when measuring hot liquid
- ®Recommended to use specified battery and not to use rechargeable battery or mixed usage
- 4Do not open or disassemble product
- To avoid measure error, do not drop or impact the product
- 6 Probe scratch, rusty, other material cover on probe surface may result in measurement error
- (7) After usage probe can be washed with clean water, keep it dry with using soft cloth
- ®If keep it for long time not used, please take out the batteries
- 9Standard solution is not edible, if solution contact skin incautiously just need to clean it with tap water

Replacement of battery

- ◆ Replacement time : when ⟨LOW icon flashes
 - ①Low battery may cause measurement error, battery replaced is needed
 - ②Please re-insert when product is not working properly after new battery replacement
 - New battery may be discharged in long circulation period, in this case, please replace new one

◆Replacement Method

- 1 Rotate the battery cover counterclockwise to "open" location and take out the battery
- 2 Put 2 AAA battery into with"+" pole direction outward
- 3 Turn the battery cover clockwise direction to "close" location
- Remark: to prevent damage, pay attention to "+""-" pole of battery



CLOSE



OPEN



BATTERY INSERTED

Product Guarantee

Warranty Card

Item Name: Multipurpose Digital Meter

Item Code: SM 01 Serial No.:

Warranty: 6 months as of purchasing date

Manufacture: Sakura Aquatic Supplies C.O. Limited

Date of Purchase: Date Month Year

Vendor:

Attention:

Please fill out this warranty card when purchase our product in order to get a prompt service Any problem caused by misusage or personal mistakes product shall not be warranted From date of purchase ,over 1 year, product is out of warranty service