

ORP METER

Model : ORP-203



Your purchase of this ORP METER marks a step forward for you into the field of precision measurement. Although this METER is a complex and delicate instrument, its durable structure will allow many years of use if proper operating techniques are developed. Please read the following instructions carefully and always keep this manual within easy reach.

OPERATION MANUAL

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1. FEATURES

- * Pocket digital ORP meter, available for wide applications, such as SWIMMING POOLS, WATER CONDITIONS, AQUARIUM, BEVERAGE, FISH HATCHERIES, FOOD PROCESSING, PHOTOGRAPHY, LABORATORY, QUALITY CONTROL, SCHOOL & COLLEGES.
- * Digital display with high accuracy.
- * Pocket size with the separate electrode.
- * Wide measuring range, max. range up to 1,999 mV.

2. SPECIFICATIONS

Display	12.5 mm (0.5") LCD, 3 1/2 digits.
Range	-1,999 mV to 1,999 mV.
Resolution	1 mV.
Accuracy	(0.8% + 1 d) <i>@ 23.5 度C @ meter only</i>
Input	10 12ohms.
Impedance	
Sampling Time	Approx. 0.4 second.
Operating Temperature	0 度C to 50 度C (32 度F to 122 度F).
Operating Humidity	Max. 80% RH.
Power Supply	DC 9V battery, 006 P, MN1604 (PP3) or equivalent.
Power Consumption	Approx. DC 1.5 mA.
Dimension	131 x 70 x 25 mm (5.2 x 2.8 x 1.0 inch).
Weight	Approx. 153g/0.34 LB (including battery).
Standard Accessory	Instruction Manual1 PC.
Optional Accessory	ORP electrode, model : ORP-04

3. FRONT PANEL DESCRIPTION

Fig. 1

- 3-1 Display
- 3-2 Power On/Off Switch
- 3-3 BNC Socket for ORP Electrode
- 3-4 Battery compartment/Cover
- 3-5 ORP Electrode, optional
- 3-6 Protection bottle of ORP Electrode, optional

4. MEASURING PROCEDURE

- 1) Connect the plug of ORP Electrode (optional, ORP-04) to the BNC Socket (3-3, Fig. 1).
- 2) Slide the " Power On/Off Switch " (3-2, Fig. 1) to the " On " position.
- 3) Immerse the electrode into the measured solution, then the meter will display the ORP values in " mV " unit.
- 4) After make the measurement, please rinse the electrode in distilled water.

5. BATTERY REPLACEMENT

- 1) When the LCD display shows " LOBAT " it is necessary to replace the battery. Measurements may still be made several hours after the " LOBAT " indicator appears before the instrument becomes inaccurate.
- 2) Slide the battery cover (3-4, Fig. 1) and remove the battery.
- 3) Replace 9V battery and re-install battery cover.
- 4) Make sure the battery cover is secure after changing the battery.