CONDUCTIVITY METER

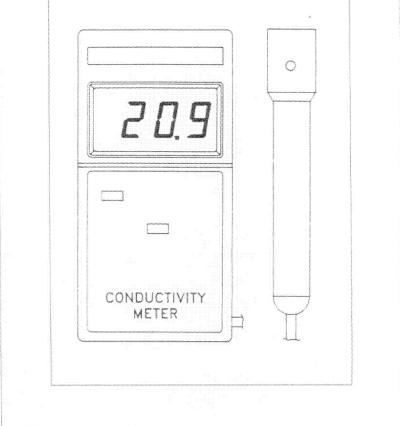


TABLE OF CONTENTS

1. FEATURES	monte
2. GENERAL SPECIFICATIONS	America
3. FRONT PANEL DESCRIPTION	
3-1 Display	3
3-3 Range Switch	3
3-5 Conductivity Electrode	3
3-7 Battery Cover Screw	3
4. MEASURING PROCEDURE	4
5.CALIBRATION PROCEDURE	5
6. REPLACEMENT of BATTERY	5

1. FEATURES

- * The portable conductivity meter provides fast, accurate readings, with digital readability and the convenience of a remote probe separately.
- * Multi-measuring ranges: 199.9 uS, 1.999 mS, 19.99 mS.
- * DATA HOLD function for stored the desired value on display.
- * Large LCD display for low power consumption & clear read—out even in bright ambient light condition.
- * Used the durable, long-lasting components, including a strong, light weight ABS-plastic housing case.
- * Compact size, designed for easy carry out & operation.
- * Built in low battery indicator.
- * Wide applications: water contioning, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, plating industry, quality control, school & college, water conditioning.

2. GENERAL SPECIFICATIONS

Display	18 mm (0.7") LCD, 3 1/2 digits.,
	3 1/2 digits, max. display 1999.
Measurement & Range	199.9 uS, 1.999 mS, 19.99 mS, Data Hold.
	* Build in 199.9 mS range, it only
	for reference, not specify the accuracy.
Resolution	0.1 uS for 199.9 uS range.
	0.001 mS for 1.999 mS range.
	0.01 mS for 19.99 mS range.
	* uS : micro Simens, mS : milli-Simens

Accuracy (23 ± 5 °C)	± (2% F.S. + 1 d) * F. S. – Full scale
Över Range Indicator	Display shows '1'.
Sampling Time	Approx. 0.4 second.
Temp. Compensation	Automatic, 0 °Cto 50 °C (32 °F to 122 °F).
Operating Temp.	0 °Cto 50 °C (32 °F to 122 °F).
Operating Humidity	Max. 80% RH.
Power Supply	006P DC 9V battery(heavy duty type).
Power Current	Approx. DC 5 mA.
Weight	340 g/0.75 LB(w/battery & electrode).
Dimension	168 x 80 x 35mm (6.6 x 3.2 x 1.2 inch).
Electrode Size	Round, 22 mm Dia. x 120 mm length.
Accessories	Instruction Manual1 PC.
Included	Conductivity electrode 1 PC. Carrying Case 1 PC.
Cal. Solution	Optional, 1.413 mS calibration solution. CD-14

3. FRONT PANEL DESCRIPTION

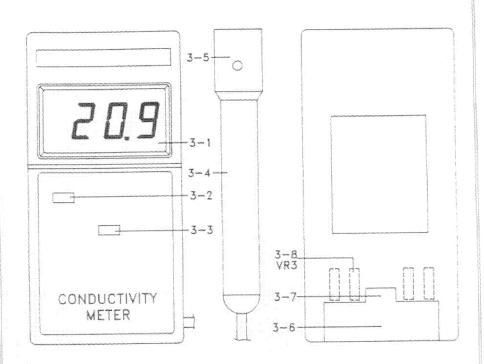


Fig. 1

- 3-1 Display
- 3-5 Conductivity Electrode
- 3-2 Off/On/Hold Switch
- 3-6 Battery Compartment/Cover
- 3-3 Range Switch
- 3-7 Battery Cover Screw
- 3-4 Electrode Handle
- 3-8 Calibration Adj. VR(VR 3)

3

4. MEASURING PROCEDURES

- 1) Slide the "Off/On/Hold Switch" (3-2, Fig. 1) to the "On" position.
- 2) Slide the "Range Switch " (3-3, Fig. 1) to the "199.9 uS", "1.999 mS", "19.99 mS" according the measurement requirement.
- 3) Hold the "Electrode Handle" (3-4, Fig. 1) by hand & let the "Conductivity Electrode" (3-5, Fig. 1) is immersed wholly into the measured solution, then the Display will show the conductivity values (uS, mS).
- 4) Data hold
 When make any measurement, if select the "On/Off/
 Hold Switch" (3-2, Fig.1) to the "Hold" position will
 keep the data on the display. It will release the data
 hold function select the "On/Off/Hold Switch" to the
 "On" position again.

Measuring Consideration:

- A. If display show "1", it indicate on out—of—range measurement If the display indicates one or more leading zeros, shift to the next lower range scale to improve the measurement.
- B. Though this meter build in 199.9 mS range, but it only for reference, not specify the accuracy.
- C. As to keep the better accuracy, please slide to the lower range if the reading value of the lower range can get higher resolution (more digits).

5. CALIBRATION PROCEDURE

When re-calibrate the instrument, please according the following procedures:

1) Prepare a " 1.413 mS Calibration Solution " (CD-14, optional).

2) Slide the "Range Switch" (3-3, Fig. 1) to the "1.999 mS" position.

3) Hold the "Electrode Handle" (3-4, Fig. 1) by hand & let the "Conductivity Electrode" (3-5, Fig. 1) is immersed wholly into the above "1.413 mS Calibration Solution", then adjust the "Calibration Adj. VR" (VR 3, ref. 3-8, Fig. 1) until the display show the value same as 1.413 mS exactly.

6. REPLACEMENT OF BATTERY

- 1) When the left corner of LCD display show "BAT" it indicate a normal battery output of less than 6.5 V 7.5 V. It is necessary to replace the battery. However, in—spec measurement may still be made for several hours after low battery indicator appears before the instrument become inaccurate.
- 2) Loose the "Battery Cover Screw" (3-7, fig. 1), slide the "Battery cover" (3-6, Fig. 1) away from the instrument and remove the battery.
- 3) Replace with 9V battery (heavy duty type) and reinstate the cover.
- 4) Make sure the battery cover is secured with the screw after change the battery.