

TABLE OF CONTENTS

I. FEATURES	
2. GENERAL SPECIFICATIONS	
3. FRONT PANEL DESCRIPTION 3-1 Display	
4. MEASURING PROCEDURE	, <i>l</i> u
5.CALIBRATION PROCEDURE	
R DEDI ACEMENT of DATTEDY	,,,,

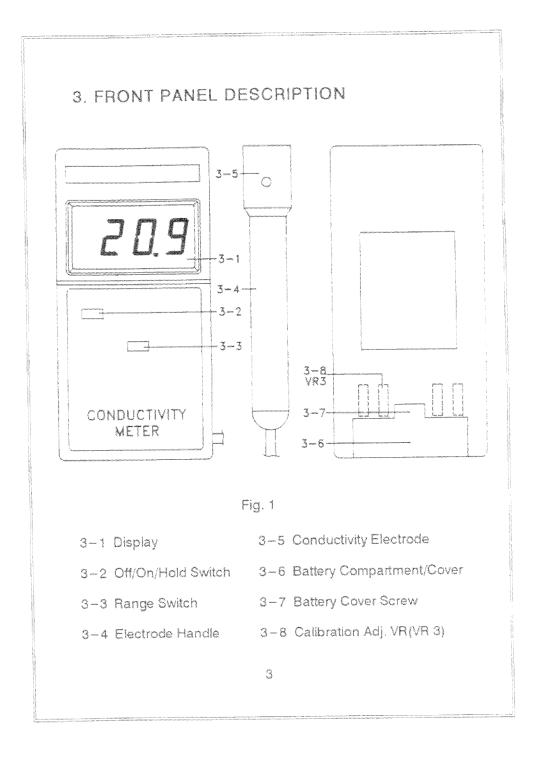
1. FEATURES

- * 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 &	199.9 uS, 1.999 mS, 19.99 mS, Data Hold.
Range	* 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	± (2% F.S. + 1 d)
(23 ± 5 °C)	* F. S Full scale
Over Range	Display shows '1'.
Indicator	
Sampling Time	Approx. 0.4 second.
Temp.	Automatic, 0 °Cto 50 °C (32 °F to 122 °F).
Compensation	
Operating Temp.	0 °Cto 50 °C (32 °F to 122 °F).
Operating	Max. 80% RH.
Humidity	
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 electrode1 PC.
	Carrying Case 1 PC.
Cal. Solution	Optional, 1.413 mS calibration solution.
	CD-14



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

- 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.

5

9706-CD-4301