CONDUCTIVITY METER

Model : CD-4302

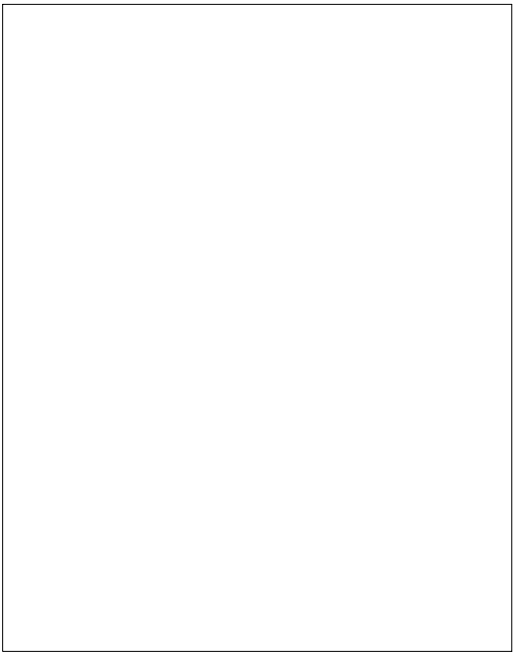

TABLE OF CONTENTS

1. FEATURES

* Pocket size, easy to carry out.
* Separate electrode, easy operation.
* The portable conductivity meter provides fast, accurate readings, with digital readability and the convenience of a remote probe separately.
* Multi measuring ranges: 1.999 mS, 19.99 mS.
* 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.
* 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.

2. SPECIFICATIONS

Display	13 mm (0.5") LCD, 3 1/2 digits. 3 1/2 digits, max. display 1999.
Measurement & Range	2 ranges, 1.999 mS, 19.99 mS.
Resolution	0.001 mS for 1.999 mS range. 0.01 mS for 19.99 mS range. * mS - milli Simens
Accuracy *(23 5 蚓)*	(2% F.S. + 1 d) * F.S. - Full scale
Sampling Time	Approx. 0.4 second.
Over Range Indicator	Display shows " 1 ".

Temperature Compensation	Automatic, 0 蚌 to 50 蚌 (32 蚌 to 122 蚌).
Operating Temp.	0 蚓 to 50 蚓 (32 蚌 to 122 蚌).
Operating Humidity	Max. 80% RH.
Power Supply	DC 9V battery (heavy duty type). 006P, MN1604(PP3) or equivalent.
Power Current	Approx. DC 5 mA.
Weight	220 g/0.48 LB (w/battery & electrode).
Dimension	*Meter :* 131 x 70 x 25 mm (5.2 x 2.8 x 1.0 inch).
	Electrode : Round, 22 mm Dia. x 120 mm length.
Accessories Included	Instruction Manual..... 1 PC. Conductivity electrode..... 1 PC.
Optional Accessories	1.413 mS calibration solution... CD-14 Carrying Case..... CA-03

3. FRONT PANEL DESCRIPTION

Fig. 1

3-1 Display

3-2 Off/On Switch

3-3 Range Switch

3-4 Electrode Handle

3-5 Conductivity Electrode

3-6 Battery Compartment/Cover

3-7 Calibration Adj. VR(VR 3)

4. MEASURING PROCEDURE

1) Slide the " Off/On Switch " (3-2, Fig. 1) to the " On " position.
2) Slide the " Range Switch " (3-3, Fig. 1) to the " 1.999 mS ", or " 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 mS values.

Measuring Consideration :

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.

5. CALIBRATION PROCEDURE

When recalibrate 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 " (VR3, ref. 3-7, Fig. 1) until display show the value same as 1.413 mS exactly.

6. REPLACEMENT OF BATTERY

1) When the left corner of LCD display show " LO 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) Slide the " Battery Cover " (3-6, Fig. 1) away from the instrument and remove the battery.
3) Replace with 9V battery, heavy duty type, 006P, MN1604 (PP3) or equivalent. and restate the cover.
4) Make sure the battery cover is secured after change the battery.