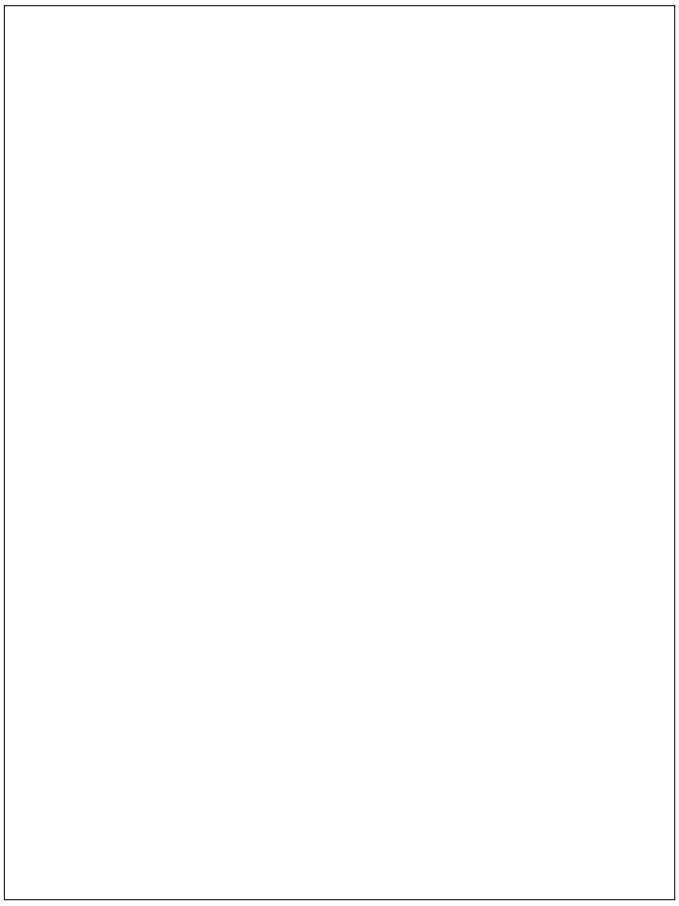
4 ranges, 4 rings probe

CONDUCTIVITY METER

Model : CD-4306



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1. FEATURES

* 4 rings conductivity probe, high performance, wide range, professional.
* 4 ranges : 200 uS, 2 mS, 20 mS, 200 mS.
* Separate electrode, easy operation.
* The portable conductivity meter provides fast, accurate readings, with digital readability and the convenience of a remote probe separately.
* LCD display for low power consumption & clear read-out even in bright ambient light condition.
* Water resistance on the front panel.
* All function keys are used the rubber button.
* Data hold.
* Used the durable, long-lasting components, including a strong, light weight ABS-plastic housing case.
* Built-in Low battery indicator.
* Wide applications: water conditioning, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, plating industry, quality control, school & college.

2. SPECIFICATIONS

Display	Large LCD display, 21.5 mm digit height.
Measurement & Range	4 ranges : 200 uS, 2 mS, 20 mS, 200 mS.
Resolution	0.1 uS for 200 uS range. 0.001 mS for 2 mS range. 0.01 mS for 20 mS range. 0.1 mS for 200 mS range. ** uS - micro Simens* ** mS - milli Simens*

Accuracy *(23 5 蚓)*	(1% F.S. + 1 d) ** F.S. - Full scale*
Sampling Time	Approx. 0.4 second.
Over Range Indicator	Display shows " 1 ".
Data Hold	To freeze the measured value on the display.
Temperature Compensation	Automatic, 0 蚓 to 50 蚓 (32蚌 to 122蚌) with temperature compensation factor fix on 2.0% per 蚓
Calibration VR	Build in external calibration VR.
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	270 g/0.60 LB (w/battery & electrode).
Dimension	*Meter :* 200 x 68 x 30 mm
	Electrode : Round, 20 mm Dia. x 124 mm length.
Accessories Included	Instruction Manual..... 1 PC. 4 rings Conductivity electrode..... 1 PC. Hard Carrying Case..... 1 PC.
Optional Accessory	1.413 mS calibration solution..... 1 PC.

3. FRONT PANEL DESCRIPTION

Fig. 1

3-1 Display	3-9 Battery Compartment/Cover
3-2 Power ON Button	3-10 Probe Socket
3-3 Power OFF Button	3-11 Probe Plug
3-4 Hold Button	3-12 Conductivity Probe
3-5 200 uS Range Button	3-13 VR 2 (200 uS calibration VR)
3-6 2 mS Range Button	3-14 VR 3 (2 mS calibration VR)
3-7 20 mS Range Button	3-15 VR 4 (20 mS calibration VR)
3-8 200 mS Range Button	3-16 VR 5 (200 mS calibration VR)

4. MEASURING PROCEDURE

1) Power ON the meter by pushing the " Power ON Button " (3-2, Fig. 1).
2) Slide the " Range Switch " (3-3, Fig. 1) to the " 1.999 mS ", or " 19.99 mS " according the measurement requirement.
   Select the convinient range by pushing the

   200 uS Range Button, 3-5, Fig. 1
   2 mS Range Button, 3-6, Fig. 1
   20 mS Range Button, 3-7, Fig. 1
   200 mS Range Button, 3-8, Fig. 1

3) Hold the " Electrode Handle " by hand & let the Conductivity Probe (3-12, Fig. 1) is immersed wholly into the measured solution, then the Display will show the conductivity 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

1) Each meter along the probe had been fully calibrated before shipment, general speaking the further calibration are not necessary before measurement.
2) Be reminded that only process above calibration procedures with reliable and qualified people.

3) Each range have its own calibration VR as :

VR 2 (200 uS calibration VR), ref. 3-13, Fig. 1
VR 3 (2 mS calibration VR), ref. 3-13, Fig. 1.
VR 4 (20 mS calibration VR), ref. 3-13, Fig. 1.
VR 5 (200 mS calibration VR), ref. 3-13, Fig. 1.

6. REPLACEMENT OF BATTERY

1) When the left corner of LCD display show " ", 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 " (3-9, 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.