

# Pen Conductivity Meter Instruction Manual

## CT-3030

Thanks for choosing our products. Please read the manual carefully before using the meter. Filing and keeping this manual for future reference.

### FEATURES

* 0 to 1999 uS/cm	* LCD with displays in both conductivity and temperature
* Pen type digital conductivity meter, all in one, conductivity electrode is included, easy for general purpose application	* Data hold function for freezing the desired value
* Water proof and protection	* High accuracy
* Already calibrated before left factory	* Compact size, light weight
* Easy to change the conductivity electrode	* Power supply by DC 1.5 V battery (LR44, BAT ) x 4 pcs
* Build in temperature sensor, ATC (auto temperature compensation)	* Available for wide applications, such as aquarium, beverage, laboratory, water quality control, school & colleges, swimming pools, water conditions
* One point calibration for 1413 uS/cm	* Temperature measurement, °C or °F
* Auto power off in 5 minutes	

### SPECIFICATIONS

<b>Display</b>	LCD, size : 20 mm x 27 mm.	
<b>Measurement Range</b>	conductivity	0 to 1999 uS/cm
<b>Resolution</b>	conductivity	1uS/cm
<b>Accuracy</b>	conductivity	± 2us/cm +1%FS
<b>Data Hold</b>	Freeze the display reading	
<b>conductivity Calibration</b>	1413 uS /cm, 1 point calibration	
<b>Temperature</b>	Range	0~50°C (32~122°F)
	Accuracy	0.5 °C, ± 1°F
<b>ATC</b>	0~50°C (32~122°F)	
<b>Operating Humidity</b>	Less than 80% RH	
<b>Dimension</b>	188 x 38 mm (electrode included).	
<b>Weight</b>	82 g (electrode included).	

## OPERATING INSTRUCTION

**Pull out the cap before use, Do not Screw it!**

### \* Hold Feature

Press **HOLD** to freeze the current reading, and a flashing '**HOLD**' will be appeared on the LCD. Press **HOLD** again to release the hold mode.

### \* Automatic Temperature Compensation (ATC)

The product is capable of measuring with automatic temperature compensation. The meter is in ATC mode when 'ATC' shows under at the left corner of the screen.

### \* °C/°F Switchover

Press **CAL** to choose the desired temperature measurement.

### \* Calibration

1. The meter had already calibrated before left factory, can be used directly without any calibration. However, after a long time using, recalibration will be needed in case of the inaccuracy of measurement. Insert the electrode into the water in 5 to 10 minutes to activate the electrode if it is in a dry condition.

Prepare 1413 uS/cm buffers. The conductivity value for the buffer is given for 25 °C. If the sample temperature is not 25 °C, the conductivity values displayed for the buffer will reflect the correct conductivity value for the sample temperature.

2. Press **ON/OFF** to turn the instrument on and Place the conductivity electrode in the buffer. The conductivity value will be updated until a stable reading is reached, press **CAL** until the text 'CAL' appear in the display. The current conductivity value will be displayed in the LCD for 1 sec, and the 1413 uS/cm will be displayed then. After 2 sec, Text 'SA' will show in the LCD denote that the current calibration result is saving. The text 'END' will be displayed at the end.

3. Please make sure the buffer and the electrode are in effect If the text 'END' appears in the display after press **CAL**.

4. Do not pull the conductivity electrode out of the buffers until the text 'END' shows in the display

### \* Out of Range Displays

1. Out of calibration range, '-- -- --' will be displayed.
2. Out of temp. Range, 'L' or 'H' will be displayed.

**\* Low Battery Power Indicator**

Please change the batteries when a sign of the battery shows in the display. Do not mix the news with the olds.

**MAINTENANCE**

Please always keep the conductivity glass bulb wet by using the cap to protect and store the electrode. Always rinse the electrode and in de-ionized water or rinse solution before next use. Never touch or rub glass bulb for lasting conductivity electrode life

**WARRANTY**

The meter is warranted to be free from defects in material and workmanship for one year from the date of purchase.

This warranty covers normal operation and does not cover battery, misuse, abuse, alteration, tampering, neglect, improper maintenance or damage resulting from leaking batteries. Proof of purchase is required for warranty repairs.

Warranty is void if the meter has been opened.

**Warning**

1. Please use the meter under the professional guidance.
2. Please insert the electrode into the water for 5 to 10 minutes before use.