



## SPECIFICATIONS

### EC

Measuring range :	0 to 10000 uS/cm, 10.01-19.99 mS/cm, 20.1-400 mS/cm ( Convert range automatically )
Resolution :	1 uS/cm ; 0.1 mS/cm
Accuracy:	±2% F.S.

### TDS

Measuring range :	0 to 10000 ppm, 10.1 to 200.0 ppt ( Convert range automatically )
Resolution :	1 ppm ; 0.1 ppt
Accuracy:	±2% F.S.

### SALINITY

Measuring range :	0.01% to 25.00%, 0 to 10000 ppm, 10.1 to 200.0 ppt
Resolution :	0.01%, 1 ppm, 0.1 ppt
Accuracy:	0.01-5.00% ( ±0.1% ), 5.10-25.00% ( ±1% ) ±2% F.S.

### PH

Measuring range :	0.01-14.00 pH
Resolution :	0.01 pH
Accuracy:	±0.05 pH

### CALIBRATION (Automatic calibration)

EC:	Three points calibration optional ( 1413 uS/cm, 12.88 mS/cm, 111.8 mS/cm )
PH:	Recognize standard solution automatically . ( 6.86, 4.00, 9.18 )
If the meter can't identify the solution, the electrode is broken	

Temperature Compensation	ATC 0-60°C
Operation Environment	0 to 60.0°C ( 32.0-140°F ) ; RH 100%
TDS Factor	0.4 to 1.0
Temperature Range	0.1-60.0°C 32.0-140°F
Temperature Accuracy	±0.5°C
Temperature Resolution	0.1°C/°F
Automatic Shut Off	5min
Battery	3*1.5V (LR44 )
Screen Size	33*24mm
Size / Weight	183 x 37 x 37mm (7.2 x 1.5 x 1.5in) / 90g (3.2oz)
Waterproof level	IP67
<b>Attention:</b> Clean the electrode after use	



[www.cd50.net/303](http://www.cd50.net/303)

**SCAN THE QR CODE**  
to download

**USER MANUAL**  
in different languages





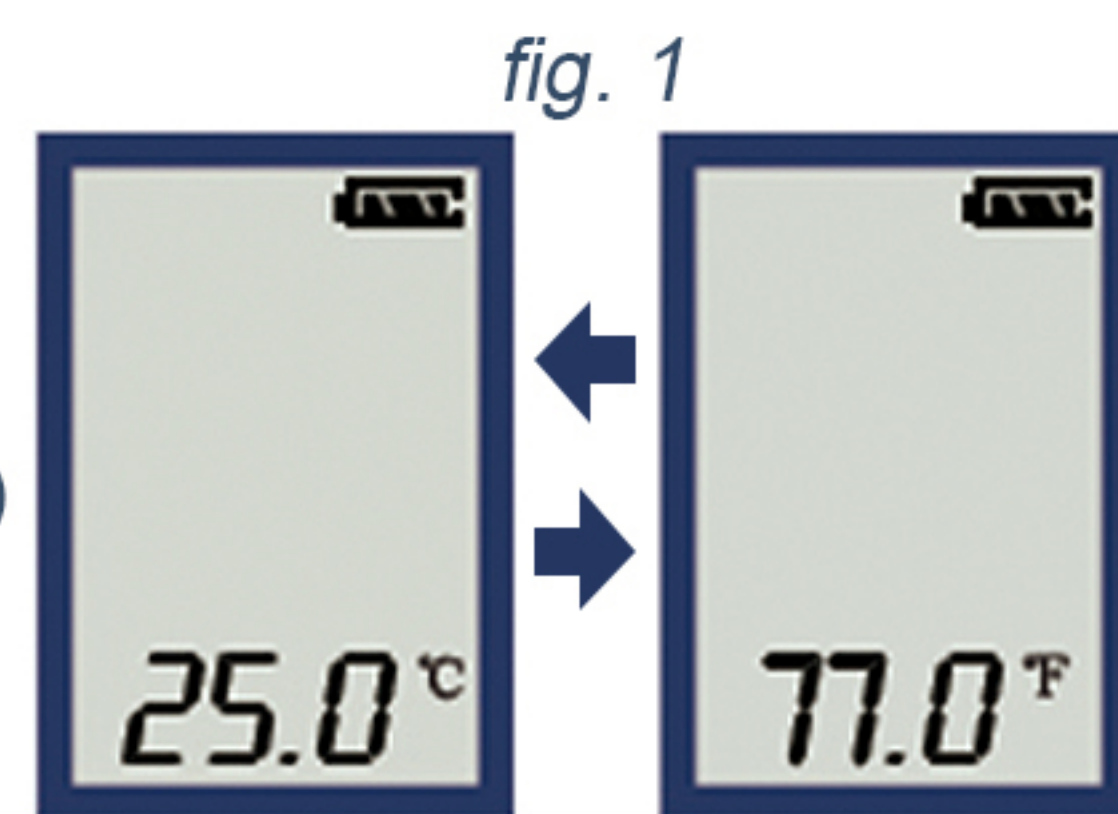
**TUTORIAL VIDEO ON HOW TO USE**



**Need more help? CONTACT US.**

# HOLD/TEMP.SHIFT

- To HOLD the reading value, press the  button.
- To change the temperature unit, long press the  button. (fig. 1)



# MODE SHIFT

- To change the MODE, press  button.
- The mode order is pH > EC > TDS > SALT ppm > SALT %



# pH CALIBRATION

**STEP 1**



Press the Power button to turn on the meter. Ensure the mode is on pH mode.

**STEP 2**



Immerse the meter into the pH 6.86 buffer solution.

**STEP 3**



- Long press MODE/CAL to enter calibration mode
- Wait until 6.86 flashes 3x and the 6.86 point is done.

**STEP 4**



Always Clean the probe with distilled water after measurement.

**STEP 5**



Repeat step 2 to 4 for **pH 4.00**  
Wait until 4.00 flashes 3x and the 4.00 point is done.

← pH4.00


**STEP 6**




Repeat step 2 to 4 for **pH 9.18**  
Wait until 9.18 flashes 3x and the calibration is done.

← pH9.18

# EC / TDS / SALT CALIBRATION




Press the Power button to turn on the meter



- Change the mode into EC mode by pressing MODE button
- Immerse the meter into the 1413μS buffer solution.

← 1413μS



- Long press MODE/CAL to enter calibration mode
- Wait until 1413 flashes 3x and the calibration is done.
- Clean the probe with distilled water and dry it with tissue.

← 1413μS

• Select a conductivity buffer (1413μS, 12.88mS or 111.8mS) which is near the sample value you are measuring to calibrate, the accuracy of the readings will be maximized.  
 • Same steps for other conductivity buffer (12.88mS or 111.8mS).

# REPLACING BATTERY

**STEP 1**



Low battery indicator flashing

**STEP 2**



Open the battery compartment

**STEP 3**



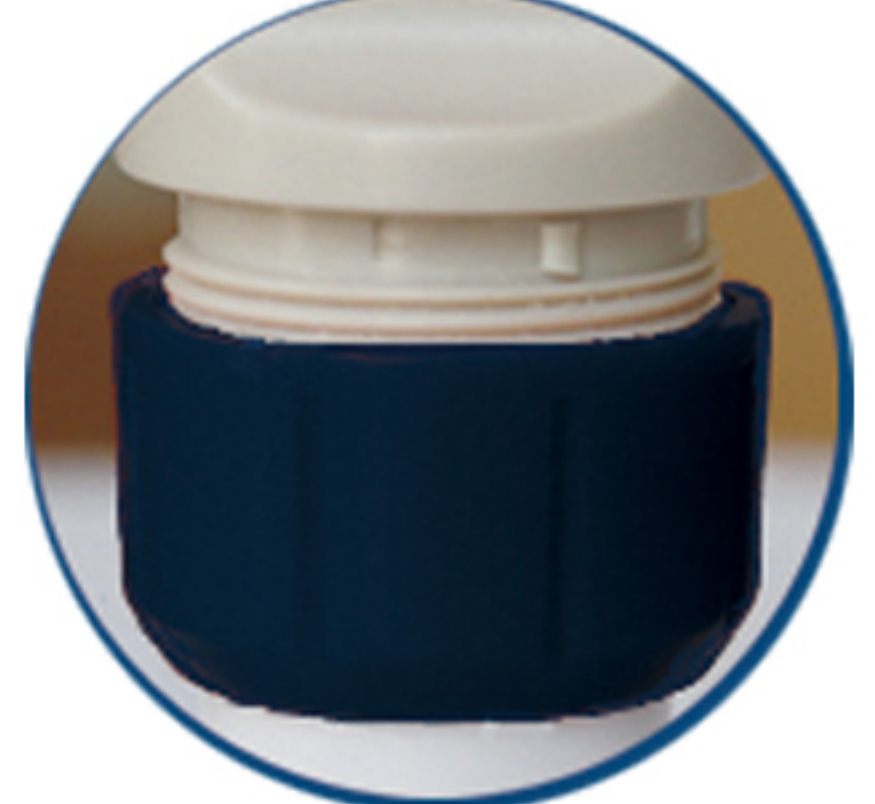
Take out the Old batteries

**STEP 4**




Insert the new batteries in the correct polarity


# REPLACING ELECTRODE




1. Remove the protective cap. Rotate to left to remove the electrode.



2. Pull out the electrode horizontally



3. Connect the new electrode on the Body



4. Put back the protective cap after