

## SPECIFICATION

Range: pH: 0.00~14.00pH

EC: 0~19990us/cm(983) TDS: 0~19990ppm(986)

Temperature: -50°C~70°C(-58°F~158°F)

Resolution: pH: 0.01pH

EC: 10 us/cm(983) TDS: 10ppm(986)

Temperature: 0.1°C(0.2°F)

Accuracy: pH: ± 0.1pH

EC/TDS: ± 2%F.S

TEMP: ± 1°C(± 2°F)

Power supply: DC 6V



Temperature compensation: 0°C~50°C

Working temperature: 0°C~50°C

Size: 188mm × 35mm × 35mm

Weight: 80g

## OPERATION

1. Remove the protective cap.
2. Clean the electrode with distilled water, and dry up the water attached to the electrode with filter paper.
3. Press the "  " to switch power.
4. Insert the instrument into the test solution, with the measuring electrode immersed in, and stir lightly.
5. Press "986-TDS/pH(983-EC/pH)" to choose "TDS/EC" or "pH", Wait until the digital is stable, read the final value.
6. After using, wash electrodes, press "  " to turn off.

## pH CALIBRATION

1. Dip pH electrode into pH 6.86 (under the temperature of 25°C) standard phosphate liquid, stir lightly.
2. Press "986-TDS/pH(983-EC/pH)" to choose "pH", Regulate the "pH7" trimmer with a screwdriver until the buffer solution value corresponding to the measurement temperature is obtained.

3. Use the distilled water clean the electrode, immerse the electrode in pH4.01 or pH9.18 the standard buffer solution. After about one minute, until the buffer solution value corresponding to the measurement temperature is obtained.
4. Showing value and buffer solution's pH value is within error range.



## (986)TDS CALIBRATION

1. Press "TDS/pH" to choose "TDS" mode, then dip TDS electrode into 6440ppm standard buffer solution, and shake lightly.
2. When the showing value is stable, adjust by bottom "TDS" until it shows 6440ppm. Wash electrode in distilled water and dry it with filter paper.
3. Dip the device into 1382ppm standard solution, showing value and standard solution is within error range.

## (983)EC CALIBRATION

1. Press "EC/pH" to choose "EC" mode, then dip EC

electrode into 12880us/cm standard buffer solution, and shake lightly.

2. When the showing value is stable, adjust by bottom "EC" until it shows 12880us/cm. Wash electrode in distilled water and dry it with filter paper.
3. Dip the device into 1413us/cm standard solution, showing value and standard solution is within error range.

In below situations, devices must be recalibrated.

- ▲ Electrode is placed to be new ones
- ▲ Having been used (or placed) for a long time after calibration
- ▲ Electrodes are very often used
- ▲ High accuracy is required.



## CAUTIONS

1. While testing please stir electrodes, and avoid the bubbles on it. Else it will affect the result.
2. If the error is too big or TDS(EC) value is not going back to 0, dip TDS electrode into ethyl alcohol and shake for 5-10 seconds to wash the electrode.

## BATTERY INSTALL

If the screen darkens or gets fuzzy, or the error is large, Batteries should be replaced. Just pull out the battery cover plate and replace it. Pay attention to the directions.



## WARRANTY

These instruments are warranted from all defects in material and manufacturing for a period of one year from the date of purchase if during this period, the repair or the replacement of parts is required where the damage is not due to negligence or erroneous operation by user, please return the parts to either dealer or our offices, and the repair will be effected free of charge.

# TRI-METER

PH/TDS&TEMP-986

PH/EC&TEMP-983

