MAINTENANCE

Conductivity probe will exhibit indications when cleaning is required. The probe will require longer stabilization time, measures erratic reading and, having difficulties to perform calibration. Avoid abrasive scrubbing on the sensor. Clean periodically for optimum performance.

Cleaning

Rinse off excess process liquid from the sensor. Rub gently across the sensor to remove soft coatings. Additionally, use soap solution to remove stubborn dirt, oils and fats.

STORAGE

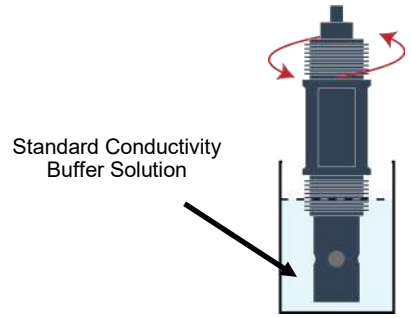
New sensor:
Keep the sensor in a dry place.

Used sensor:
Clean the sensor thoroughly before storing. Wipe the sensor dry and store the sensor in a dry place.

CALIBRATION

Use fresh buffer for calibration. Perform a one-point calibration according to the methods below. Recommended standard of master reference meter conforms to ASTM D 5391-99 and current USP Testing Method to calibrate low conductivity sensor such as C-E603.

General Application



Steps:

1. Select the buffer solution closest to your operating range.
2. Clean the sensor thoroughly.
3. Immerse the sensor in buffer solution.
4. Adjust the cell constant accordingly on the process controller to match the measurement reading.

Ultrapure Water Application

Steps:

1. Connect the master calibrator in series with the Leadtec conductivity sensor.
2. Adjust the cell constant on the process controller until the measurement reading matches the master meter.

leadtec
Water Treatment Solution

Leadtec Instruments (Asia) Sdn Bhd (1220327-P)

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Jalan SS7/26, Kelana Square, 47301
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Pusat Perniagaan Raja Uda, 12300
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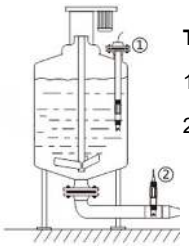
Water Treatment Solution

User Guide

Conductivity / TDS / Resistivity / Salinity

www.leadtec-asia.com

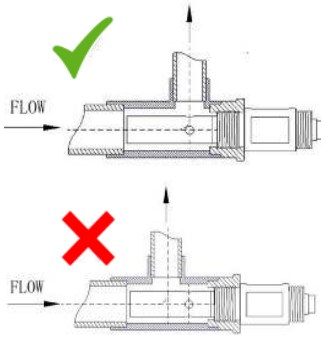
INSTALLATION



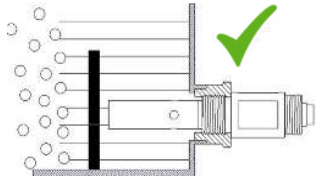
Types of Installation:

1. Top flange installation
2. Pipe installation

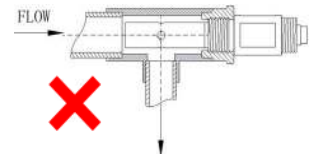
1. Install the sensor to position of the holes of the flow cap, as shown below.



2. Eliminate trapped bubbles by setting up a partition for in-line installation.

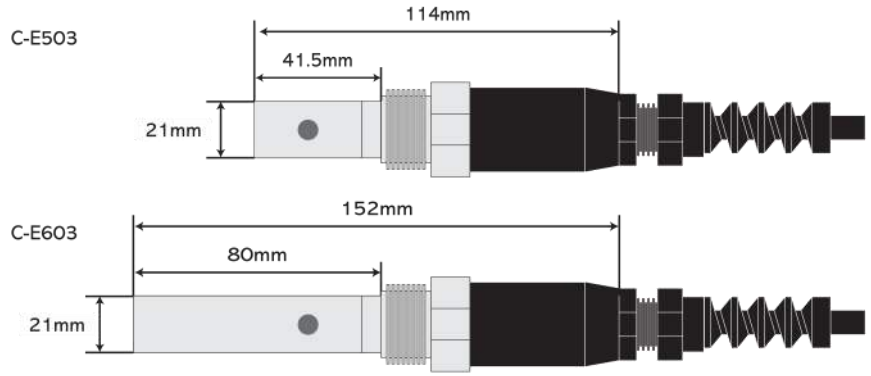


3. The sensor tip must be fully submerged for a full contact with liquid. Avoid gravity flow system as air pockets built up on the top of the tip may cause error in measurement. Avoid installation as shown below.

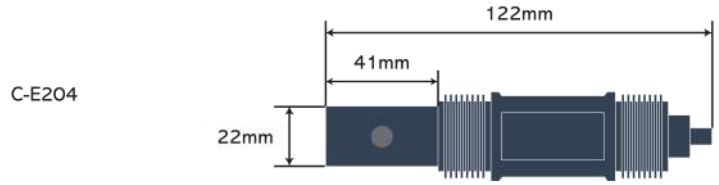


DIMENSIONS

2-Electrode Sensors



4-Electrode Sensor

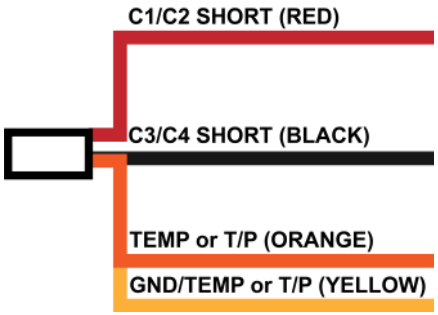


SPECIFICATIONS

Type	4-Electrode	2-Electrode	
Product code	C-E204	C-E503	C-E603
Cell constant, K	0.5	0.1	0.01
Measuring range	10 uS/cm - 500 mS/cm	0 - 200 uS/cm	0 - 20.00 uS/cm
Temperature probe	Pt-1000 / NTC10K / NTC30K		
Operating temperature	0-110 ℃	0-110 ℃	
Operating pressure	7 bar (100 psi)		
Connection	3/4" NPT		
Cable length	Upon request		

WIRING DIAGRAM

2-Electrode Sensors



4-Electrode Sensors