

CCT-3320V Conductivity Monitor

Operation Manual

V1.1

Notice before operation:

1. Carefully read the relevant parts of this manual before installation and operation to prevent wrong operation, measurement error and damage of instrument.
2. This instrument is for electrochemical measurement, and its installation and operation should be performed by technicians with relevant professional knowledge.

I. Performance features

CCT-3320V Conductivity Monitor, with economy and smart design for the low cost market.

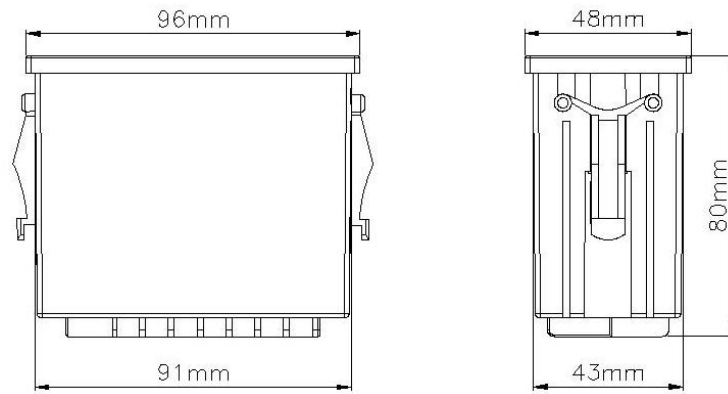
Feature :

- 1.Full measurement range auto switch ,complete program auto calibration ,digital temperature compensation .
- 2.Engineer unit : $\mu\text{S/cm}$ 、ppm for selection ;

1. Main technical specifications

Name	CCT-3320V Conductivity Monitor		
Sensor Model	CON1134-13		
Sensor Constant	1.000cm^{-1}		
Measurement Parameter	Measurement range:	Resolution	Accuracy
Conductivity	$(0.50\sim 2000)\ \mu\text{S/cm}$	$0.01\mu\text{S/cm}$	1.5% (FS)
TDS	$(0.25\sim 2000)\ \text{ppm}$	0.01ppm	1.5% (FS)
Temperature	$(0\sim 50)\ ^\circ\text{C}$	0.1°C	$\pm 0.5^\circ\text{C}$
Temperature compensation component	NTC10K		
Storage Environment	Temperature: $(-20\sim 60)^\circ\text{C}$ Humidity: $\leq 85\%\text{RH}$		
Working Environment	Temperature: $(5\sim 50)\ ^\circ\text{C}$ Humidity: $\leq 85\%\text{RH}$		
Dimensions	48 mm $\times$ 96 mm $\times$ 80mm (H $\times$ W $\times$ D)		
Installation	Panel mounted, fast installation		
Slot dimensions for installation	44mm $\times$ 92mm		

II. Installation



Size Diagram

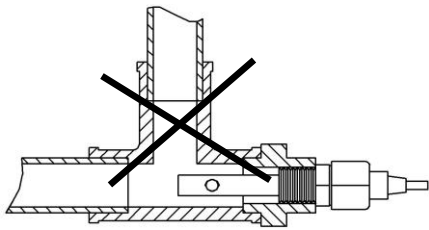
Electric Connection

Sensor collect and transmit weak electric signal, in order to avoid interference, the cable should not be mixed with high-voltage high-frequency wiring.

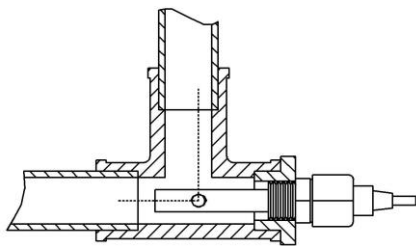
Please connect the power and signal cables according to the terminal assignment diagram:

CELL(W)	Connect white wire to CELL (W)
NET(G)	Connect green wire to NET (G)
CELL(Y)	Connect yellow wire to CELL (Y)
T--(R)	Connect red wire to T (R)
220V	AC220V
0V	AC220V

2. Measurement electrode (CELL) installation



Using the inappropriate connection seat, water flow in sensor is static and short of updates.



Water flow through the small hole is constantly updated, the measurement data is valid. The measurement data is valid.

III. Debugging.

First application, must enter into the setting mode to check and set the data parameter.



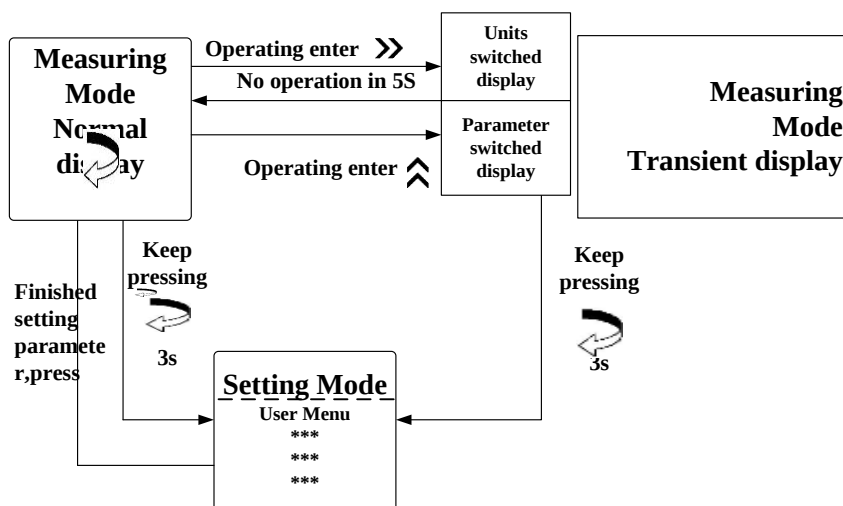
Front View

Three keys have different functions under different modes, details as below:

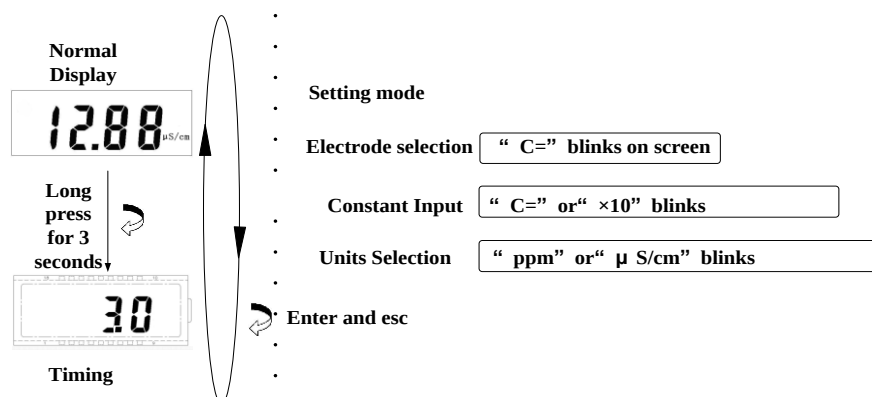
»	Select Key	1.select thousand, hundred ,ten and unit in circulate under parameter setting interface 2.switch to display conductivity/TDS/resistivity under measurement condition
	Add key	1. Adjust the value under parameter setting status. 2. Check the temperature reading under measurement status.
	Enter key	1.Enter parameter setting under main menu 2.Save the parameters and enter next menu



Measuring mode and setting mode can switchover according to the below diagram:



Parameter setting:



IV. General fault inspection and trouble shooting

Symptom	Possible causes	Trouble shooting methods
1. No instrument display	A. Bad connection of power supply B. Instrument fault	A. Check to see if there is 220V voltage. B. Bring it to professional technicians for maintenance, and the manufacturer will be responsible for exchange within one year after the product leaves the factory.
2. Unstable display	A. Incorrect electrode wiring B. There is air bubble in the pipe C. Inverse water inflow direction of electrode D. Strong interference to power supply E. The measured liquid is charged	A. Check to see if the cable wiring is wrong B. Adjust the pipe or select another measurement point C. Install the electrode up stream D. Take measures to power supply according to corresponding reasons E. Insert earthing stainless steel pipe to eliminate electricity before entering the electrode
3. Serious error of reading	A. Incorrect constant setting B. The electrode constant is changed C. Too rapid flow at measurement point or dead water	A. Install the sensor according to the operational manual. B. Recalibrate the electrode constant C. Install the electrode at where the flow is relatively slow

V. Complete sets of instrument

Panel meter	1	Sensor	1
Fixing clamp	2	Operation manual	1

Note: Sensor cable length is 3 meters as standard (while can be customized by customer, $\leq 10\text{m}$)