

1. General description:

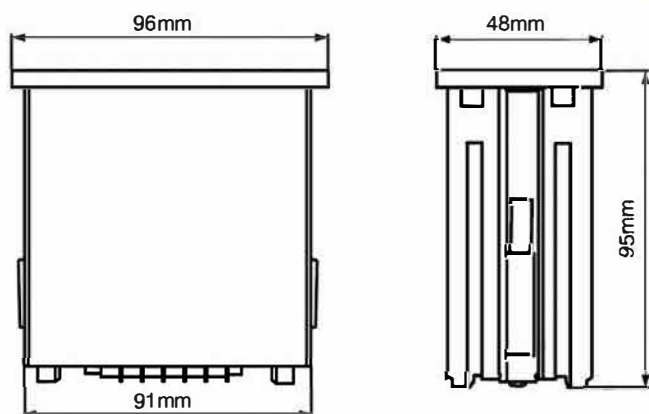
The CM-230s conductivity meter is an updated version of the old CM-230 and TDS-230. Its an economical intelligent industrial online conductivity meter with the following features:

1. Full scale (0-20/200/2000) automatic switching, intelligent digital temperature compensation;
2. Display unit one-button switching: $\mu\text{S}/\text{cm}$ or ppm;
3. Main interface display: conductivity value, temperature value

2. Main technical specifications:

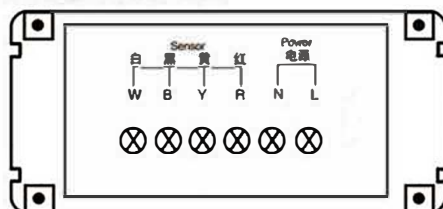
Code	CM-230s		
Sensor Constant	1.000 cm^{-1}		
Measuring para	Range	Resolution	Accuracy
Conductivity	(0.50-2000) $\mu\text{S}/\text{cm}$	0.01 $\mu\text{S}/\text{cm}$	1.5%FS
TDS	(0.25-1000) ppm	0.01 ppm	1.5%FS
Temperature	(0-60) $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	$\pm 0.5^{\circ}\text{C}$
Temp. Comp	NTC10K		
Supporting electrode	1.0cm-1ABS platinum black electrode(optional stainless steel 1.0cm-1 electrode		
Working environment	Temperature: 0-50 $^{\circ}\text{C}$ Humidity: $\leq 85\%$ RH (Non-condensing)		
Dimensions	48 mm x 96 mm x 95 mm (H x W x D)		
Hole size	45mm x 92 mm		
Power supply	☐ AC 220V 50Hz ☐ AC 110V 60Hz ($\pm 10\%$)		

3. Installation diagram:



3.1 Electrical connections:

The collection and transmission of the conductivity sensor signal is weak signal. In order to avoid any interference, the conductivity sensor cable can't be mixed with the power supply cable and the high-voltage high-frequency cable.

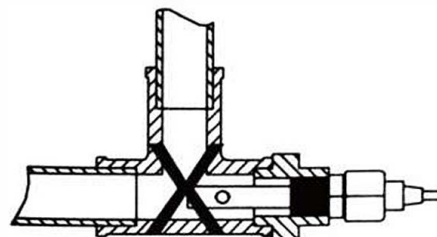


Back wire connection diagram

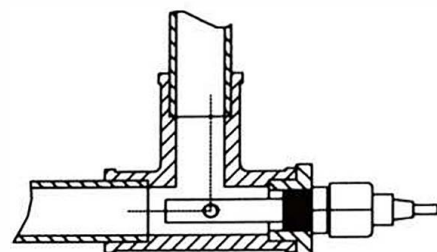
Sensor	白(W)	Sensor white wire (WHITE)
	黑(B)	Sensor black wire (BLACK)
	黄(Y)	Sensor yellow wire (YELLOW)
	红(R)	Sensor red wire (RED)
Power	N	AC220V
	L	AC220V

3.2 Sensor installation:

To ensure the real measurement result, data distortion caused by air bubble or dead water in conductance cell should be avoided.



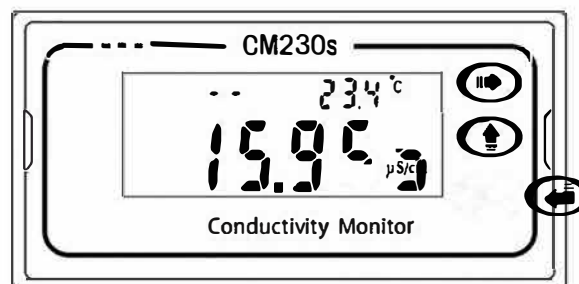
1. Wrong installation



2. Correct installation

4. Operation description:

Note: When using for the first time, pls check the constant of conductivity sensor (on the label of the sensor wire) matches the parameter set in the meter (C=****).



Front view

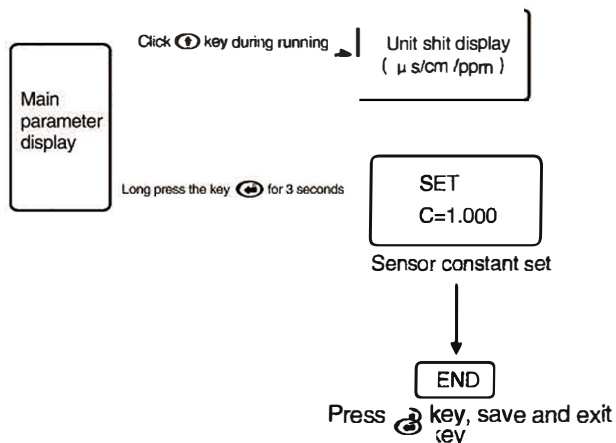
4.1 Key operation

Note: This meter need to be set the conductivity sensor constant by manual, other parameters can be completed by inner automatic calibration.

	Selection Key	1. In the parameter setting state, the cycle selects thousands, hundred, ten, and ones.
	Add key	1. In the parameter setting state, increase the value of the selected bit. 2. In the measuring state, shift to display measuring unit $\mu\text{S}/\text{ppm}$
	Confirm key	1. Enter into the parameter settings under the main interface. 2. Confirm saving the parameter, enter into next menu.

4.1 Key operation

Note: This meter need to be set the conductivity sensor constant by manual, other parameters can be completed by inner automatic calibration.



5. General fault inspection and trouble shooting

Symptom	Possible causes	Trouble shooting methods
Powered but no display	A.Bad connection of power supply B.Instrument fault	A.Check to see if there is 220V voltage between (N) and (L) B.Bring it to professional technicians for maintenance,
Unstable display	A.Incorrect sensor wiring B.There is air bubble in the pipe C.Water quality is not stable	A.Check to see if the cable wiring is wrong B.Adjust the pipe or select another measurement point Measure by stable water quality to exclude the instrument problem
Serious error of reading	A.Incorrect constant setting B.The sensor constant is changed C.Too rapid flow at measurement point or dead water D.Wrong sensor installation	A.Re-set sensor constant B.Re calibrate the sensor constant or change the new sensor. C.Install the electrode at where the flow is relatively stable D.Installation sensor as per operation manual

6. Complete sets of instrument

Conductivity meter 1 Sensor 1
Fixing clamp 1 Operation manual 1

[Note]: The cable length of the conductivity cell is 3 meters (can be customized according to customer's special requirements) Customized compliance length, line length ≤ 10 meters

For more details, please contact us!

