

Industrial online conductivity meter User Manual



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1. Introduction

Conductivity monitor CM-230 , measurement and temperature compensation via MCU. With easy operation and complete function, it is widely used in reverse osmosis to desalinate seawater and electronic micro filter.

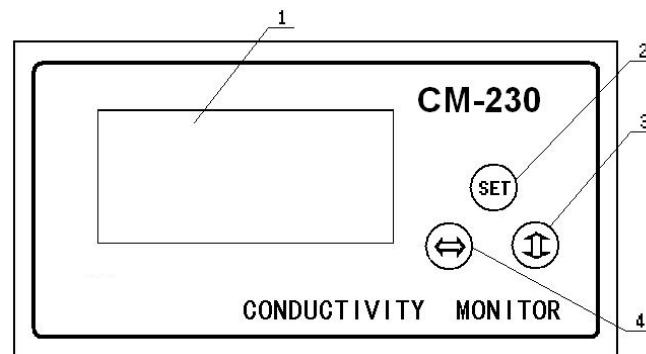
2. Features

- 1) Automatically reversible measurement range
- 2) Automatically adjustment to zero
- 3) Simultaneous viewing of conductivity and temperature values
- 4) Input electrode coefficient on the panel

3. Technical Specifications

- 1) Measurement range: 0-1999 μ S/cm
Automatically reversible measurement range: 0-19.99 μ S/cm, 0-199.9 μ S/cm 0-1999 μ S/cm;
- 2) Temperature compensation: automatic temperature compensation, compensation range 0-60 $^{\circ}$ C, compensation point 25 $^{\circ}$ C, compensation coefficient 2.0%/ $^{\circ}$ C
- 3) Display: 3.5 digits 0.56" Backlight LCD for conductivity display
- 4) Accuracy: $\pm 2\%$ (F·S)
- 5) Electrode: 1.00cm⁻¹ plastic platinum holder, 4' tube connected by screw, cable length 5m
- 6) Power supply: 220 VAC $\pm 10\%$, 50Hz
- 7) Dimensions: frame dimension: 96 \times 48 (mm), panel dimension: 91 \times 45 (mm), depth: 100 (mm)
- 8) Testing standard: JB/T6855

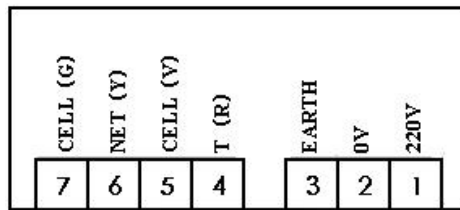
4. Front Panel



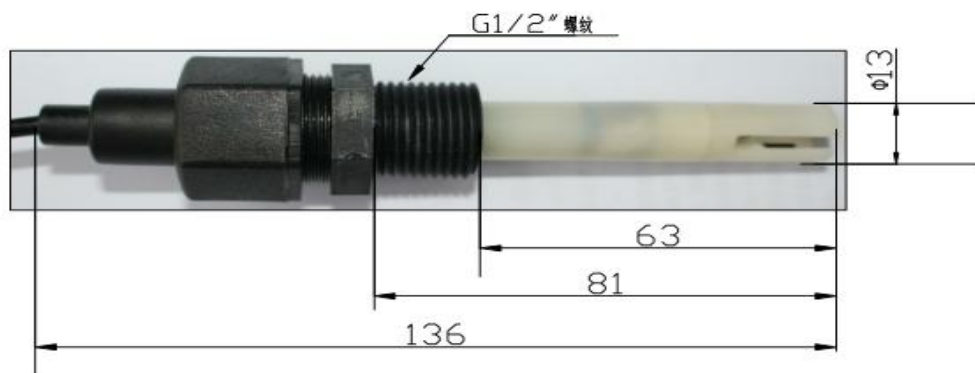
Description:

1. LCD for conductivity display
2. SET key for choosing function
3. change the value
4. move the value point

Diagram of Wire Connection on Back Panel



Sensor design size



Description:

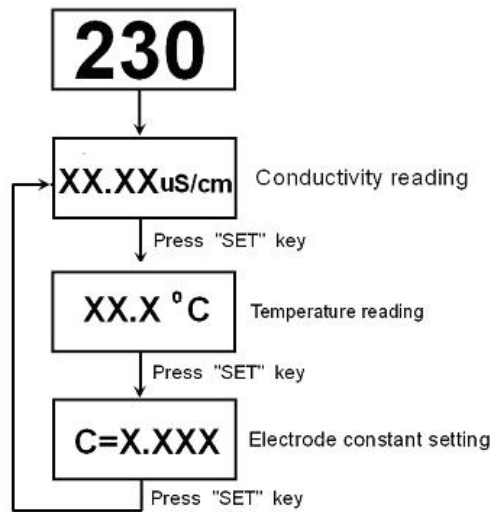
1. Power input terminal 1: 220V, terminal 2: 0V, terminal 3: earth
3. Electrode Terminal
- 4: RED [T(R)], terminal
- 5: Violet [CELL(V)], terminal
- 6: YELLOW [NET(Y)], terminal
- 7: Green [CELL(G)]

Operating Instruction

- 1) Put the instrument on the working table and fix the display unit.
- 2) After correctly connecting the electrode wire, power supply wire, input wire and output wire according to the diagram of wire connection on back panel, connect the power supply.
- 3) Put the electrode into the tube with water, then power on.
- 4) Coefficient set:
- 5) Press SET key, C=X.XXX will be displayed.
- 6) Press "←" key, move the point.
- 7) Press "↑" key, change the displayed value unless it is the coefficient.
(Coefficient is on the electrode lead wire.)

Note:

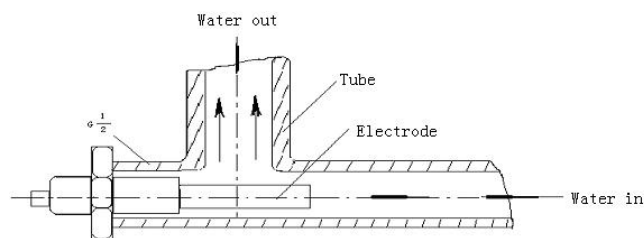
- That the last figure is flashing means it is under SET.
- If the electrode is not connected, 0.00 will be displayed.
- Press SET key to enter into the below function window.



Attentions

- 1) The cable for testing the electrode should be special cable. If it is longer than factory length (5m), please confirm the length when place the order. For a good measurement accuracy, please remember to use special cable.
- 2) The measurement signal for conductivity is weak. In order to avoid interference or break the meter, the electrode cable should not be bound with any other cables.
- 3) Absolutely correct connection is the must, as the meter is sensitive.
- 4) Relay is preferred for alarm output to secure the safe working.

Electrode Installation (refer to below illustration)



What included

- | | | |
|---|------------------------|---|
| 1 | Conductivity Monitor | 1 |
| 2 | Electrode | 1 |
| 3 | Frame for Installation | 1 |
| 4 | Quality Certificate | 1 |
| 5 | Operating Instruction | 1 |