

Conductivity controller

Committed to process automation solutions

Datasheet



SUP-EC8.0

The SUP-EC8.0 is used in industrial measuring of the temperature, conductivity, Resistivity, salinity and total dissolved solids, such as waste-water treatment, environmental monitoring, pure water, sea farming, food production process, etc. The instrument can be panel, wall or pipe mounted. The instrument provides two current outputs. The maximum load is 500 Ω . The instrument provides 3 relays. It can pass through a maximum of 5A/250VAC or 5A/30VDC.

Characteristics

- Easy operation
- NEMA enclosure for field mounting and panel mounting
- Automatically Temperature Compensation
- Directly switchable to EC or TDS
- Large LC D display with background lighting
- EC or TDS sensors can be connected thanks to the sensor supply integrated in the output
- Using the setup program: user-friendly programming
- Data logging capacity
- 4-20mA analog output
- RS485 communication

Parameter

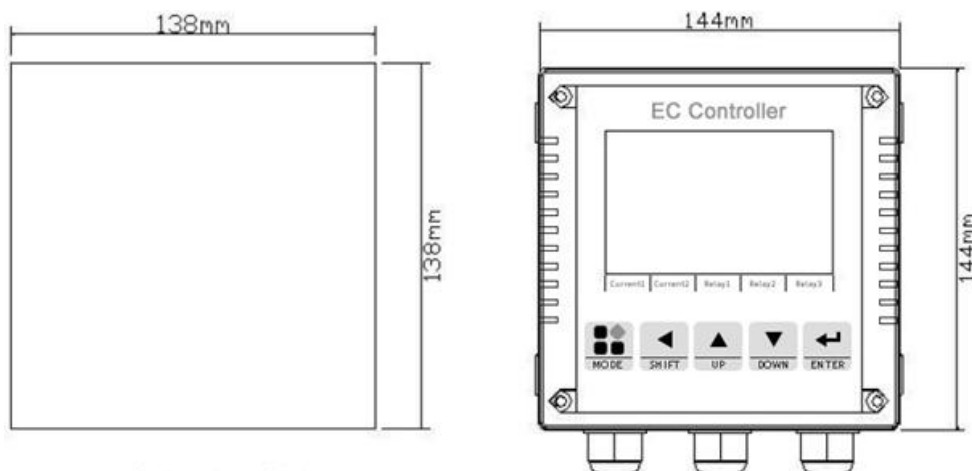
Functions	EC	Resistivity	Salinity	TDS
Measuring range	0.00uS-2000 mS	0.00-20.00 M Ω -CM	0.00-78.00 g/Kg	0-133000 ppm
Resolution	0.01/0.1/1	0.01	0.01	1
Accuracy	$\pm 1\%$ F.S.	$\pm 1\%$ F.S.	$\pm 1\%$ F.S.	$\pm 1\%$ F.S.
Temp. compensation	Pt1000/NTC30K			
Temp. range	-10.0 to +130.0 $^{\circ}$ C			
Temp. compensation range	-10.0 to +130.0 $^{\circ}$ C			
Temp. resolution	0.1 $^{\circ}$ C			
Temp. accuracy	$\pm 0.2^{\circ}$ C			
Cell constant	0.001 to 20.000			
Ambient temp. range	0 to +70 $^{\circ}$ C			
Storage temp.	-20 to +70 $^{\circ}$ C			
Display	Back light, dot matrix			
EC current output1	Isolated, 4 to 20mA output , max. load 500 Ω			
Temp. current output 2	Isolated, 4 to 20mA output , max. load 500 Ω			
Current output accuracy	± 0.05 mA			
RS485	Modbus RTU protocol			

Baud rate	9600/19200/38400
Maximum relay contacts capacity	5A/250VAC,5A/30VDC
Cleaning setting	ON: 1 to 1000 seconds, OFF: 0.1 to 1000.0 hours
Multifunction relay	clean/period alarm/error alarm
Relay delay	0-120 seconds
Data logging capacity	500,000
Language selection	English/traditional Chinese/simplified Chinese
Waterproof grade	IP65
Power supply	90~260 VAC, power consumption < 7 W
Installation	panel/wall/pipe installation
Weight	0.85Kg

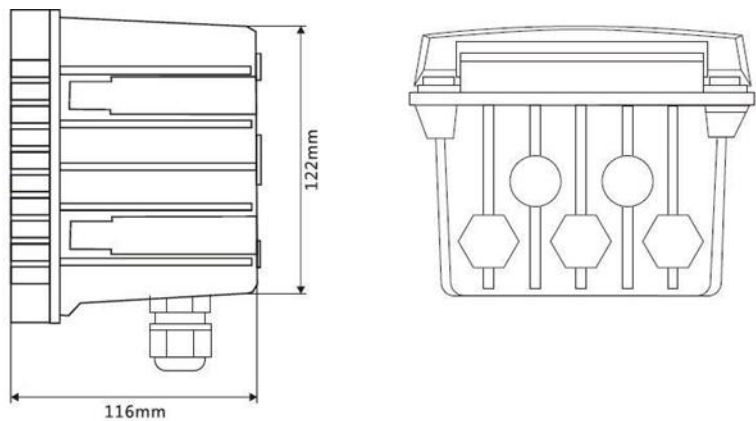
Dimension

The instrument can be panel, wall or pipe mounted installation.

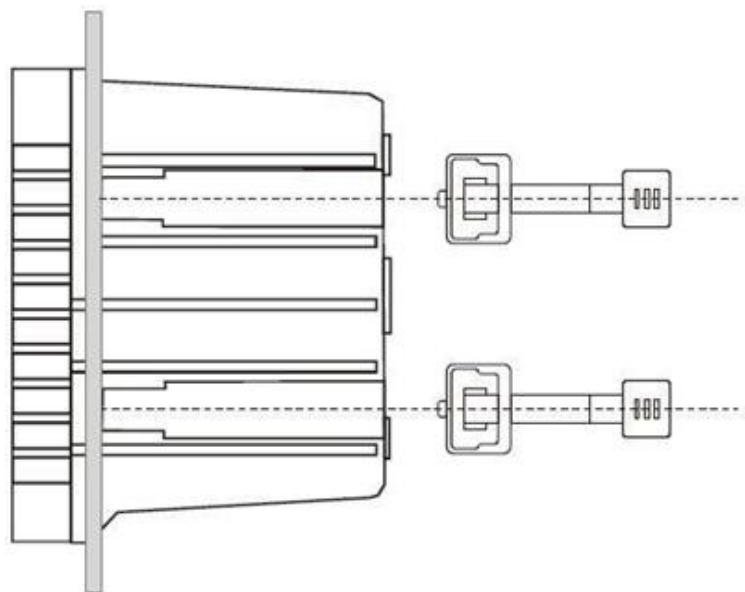
Panel Installation: Make a 138x138 mm square cutout and insert the instrument. Screw in the fixed block with the screws and fixed bar.



Cutout dimension

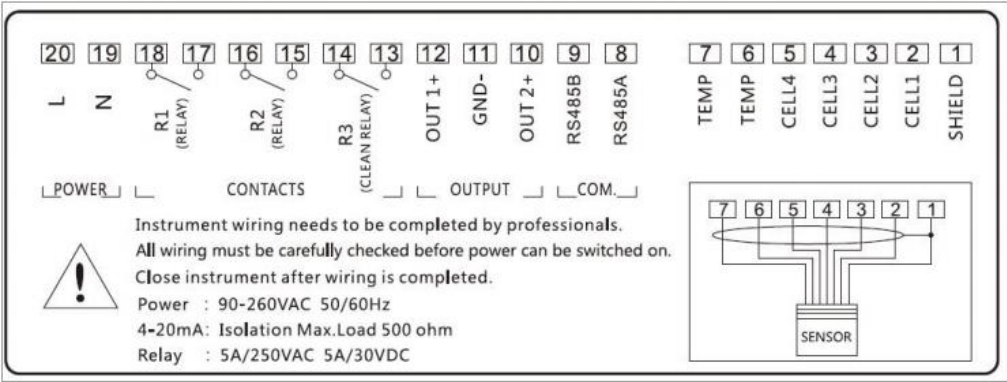


Overall dimensions

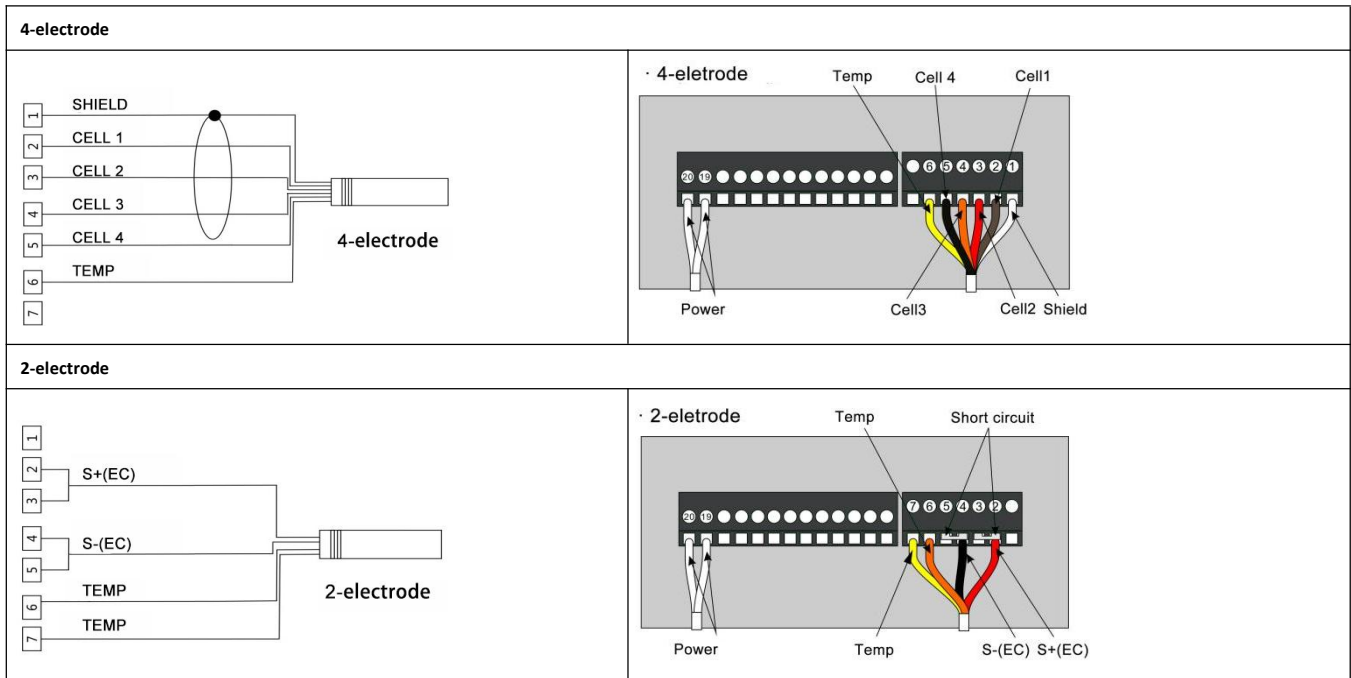


Installation figure

Wiring

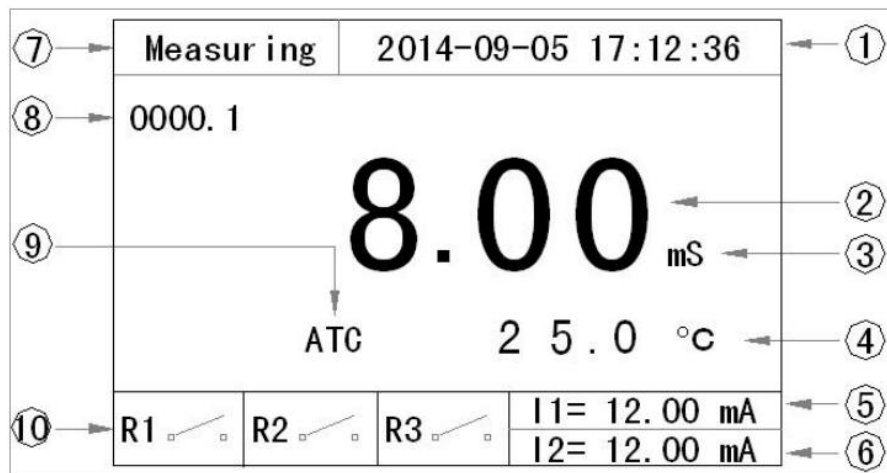


Connection label



Electrode connection figure

Display



1. Date and time
2. Main display
3. Unit
4. Temperature and unit
5. First current output
6. Second current output
7. Measurement status and Error indicator, there is no display if meter is in keeping mode
8. Count down timer: cycle time/clean time, it also displays the "delay" when relay3 has a delay enabled.
9. Temp. compensation: auto(ATC) or manual(MTC)

10. Relay indicator

Note: If the EC readings are over the range, it will display 99.99/999.9/9999 If the temperature readings are under or over the range, it will display -99.9/999.9.

Ordering Code

Conductivity meter							
SUP-EC8.0	Model						Description
Measuring range	DL						0.00 μ S/cm-2000mS/cm
Output	D						2-channel 4-20mA + RS485
Alarm output		5					2 SPST + 1 time relay
Electrical interface			2				M16 \times 1.5 cable gland
Power supply				E			220VAC
				X			Others

Supmea

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