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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 500Ω . The instrument provides 3 relays. It can pass though 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

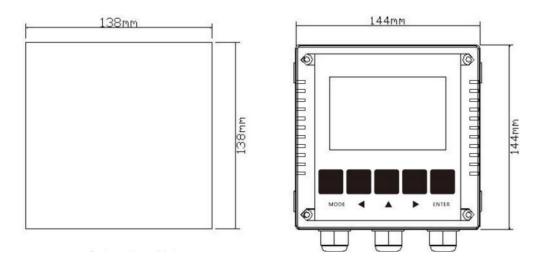
Functions	EC TDS				
Measuring range	0.00uS-2000mS 0-133000 ppm				
Resolution	0.01/0.1/1 1				
Accuracy	±1%F.S.	±1%F.S.			
Temp. compensation	Pt 1000/NTC30K				
Temp. range	-10.0 to +130.0℃				
Temp. compensation range	-10.0 to +130.0℃				
Temp. resolution	0.1 ℃				
Temp. accuracy	±0.2℃				
Cell constant	0.001 to 20.000				
Ambient temperature range	0 to +70℃				
Storage temp.	-20 to +70℃				
Display	Back light, dot matrix				

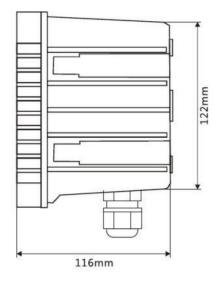
Parameter

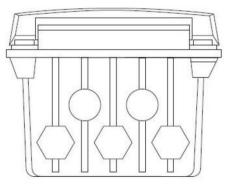
Isolated, 4 to 20mA output , max. load 500 Ω		
Isolated, 4 to 20mA output , max. load 500 Ω		
±0.05 mA		
Mod bus RTU protocol		
9600/19200/38400		
5A/250VAC,5A/30VDC		
ON: 1 to 1000 seconds, OFF: 0.1 to 1000.0 hours		
clean/period alarm/error alarm		
0-120 seconds		
500,000		
English/traditional Chinese/simplified Chinese		
IP65		
From 90 to 260 VAC, power consumption < 7 Watts		
panel/wall/pipe installation		
144 series:0.85Kg		

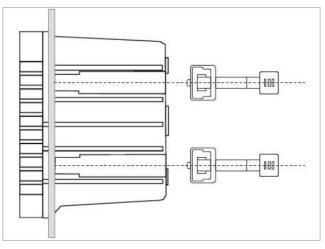
Dimension

144 series: 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.



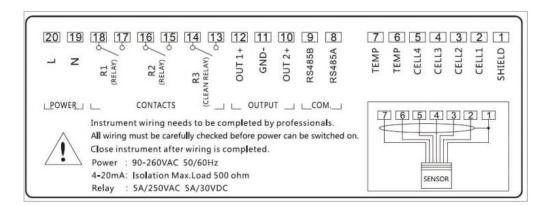




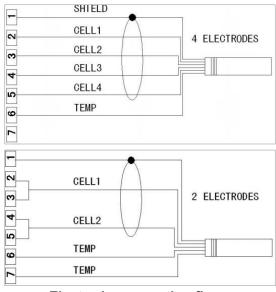


installation figure

Wiring

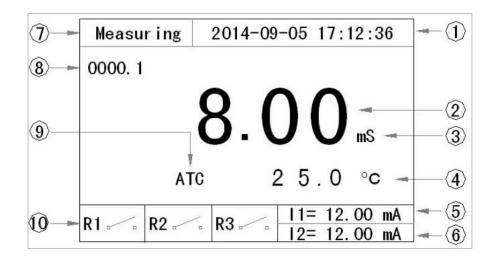


Connection label



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	
Range	R1						0-20000µS/cm	
Cell constant		K1					K=0.01 0.02 ~ 20.00µS/cm	
		K2					K=0.1 0.20 ~ 200.0µS/cm	
		K3					K=1.0 2.00 ~ 2000µS/cm	
		K4					K=10.0 0.02 ~ 20.00mS/cm	
Cable Length			L1				5M	
			L2				10M	
			L3				15M	
-			L4				20M	
			L5				Other Length	
Signal Output S1					4-20ma RS485			
Relay			A1		Two (high and low)			
							From 90 to 260 VAC, power	
Power supply						V1	consumption < 7 Watts	



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