



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

Industrial pH/ORP Controller

SUP-pH8.5

Supmea[®]

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Datasheet

Industrial pH/ORP Controller SUP-pH8.5

The instrument is used for industrial pH/mV ORP and temperature measurement, such as: wastewater, pure water, high-purity water, environmental monitoring, food production processes, etc.

The instrument can be installed on the panel, on the wall, or in pipelines.

The instrument provides 2 current outputs with a maximum load of 500Ω. The instrument provides 3-way control relays. The maximum voltage and current the relays can withstand is 5A/250VAC or 5A/30VDC.

Applications

- Wastewater
- Pure water
- High-purity water
- Environmental monitoring
- Food production processes



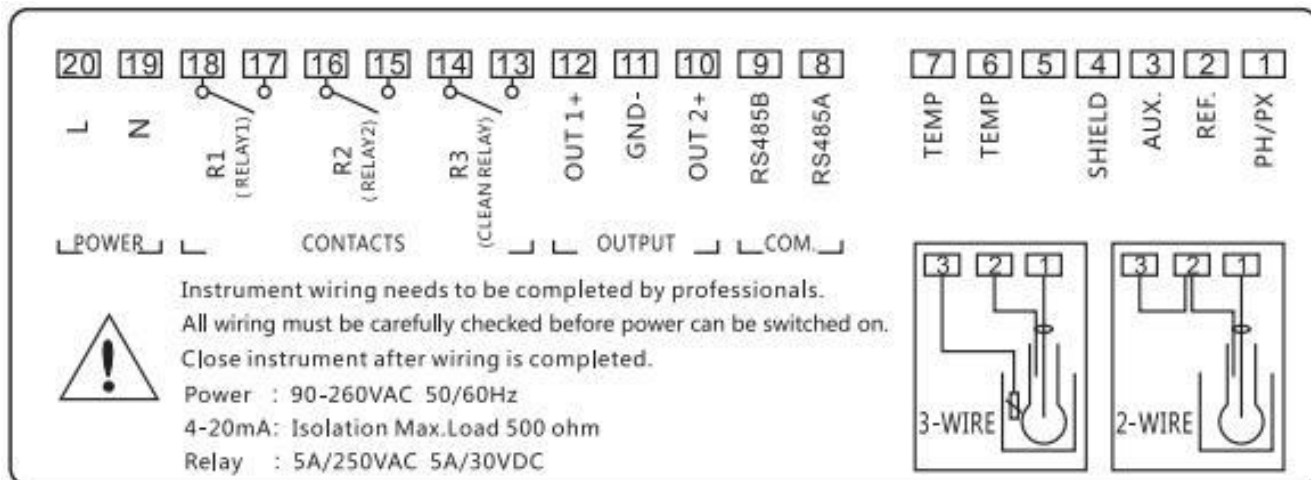
Features

- It is used for industrial pH/mV ORP and temperature measurement.
- It can be installed on the panel, on the wall, or in pipelines.
- It provides 2 current outputs with a maximum load of 500 Ω.
- It provides 3-way control relays.

Industrial pH/ORP Controller

Parameters		
Function	pH	ORP
Measuring range	(0.00~+14.00)pH	(-2000~+2000)mV
Measurement resolution	0.01pH	1mV
Measurement accuracy	+0.01pH	±1mV
Temperature compensation method	Pt1000/NTC10K	
Temperature measurement range	(-10~+130)°C	
Temperature compensation range	(-10~+130)°C	
Temperature resolution	0.1°C	
Temperature accuracy	±0.2°C	
Input resistance	>10 ¹² Ω	
Working temperature	(0~+70)°C	
Storage ambient temperature	(-20~+70)°C	
Display	Extra large dot matrix LCD with backlight	
pH/ORP current output 1	Isolated (4~20)mA output, maximum load 500Ω	
Temperature current output 2	Isolated (4~20)mA output, maximum load 500Ω	
Current output accuracy	±0.05mA	
RS485	Modbus RTU	
Communication rate	9600/19200/38400	
Relay contact capacity	5A/250VAC/, 5A/30VDC	
Cleaning settings	ON: 1 to 1000 seconds、OFF: 0.1 to 1000.0 hours	
Multifunctional relay	Cleaning/cycle alarm/error alarm	
Relay delay action	0-120s	
Data record	500,000	
Language selection	English/Traditional Chinese/Simplified Chinese	
Protection level	IP65	
Power supply	(90~260)VAC, Power dissipation<7W	
Installation method	installed on the panel, on the wall, or in pipelines	
Weight	0.85kg	

Wiring

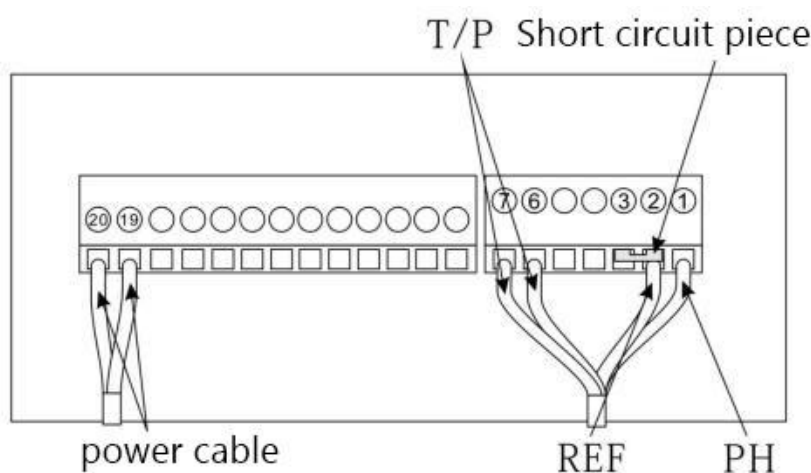
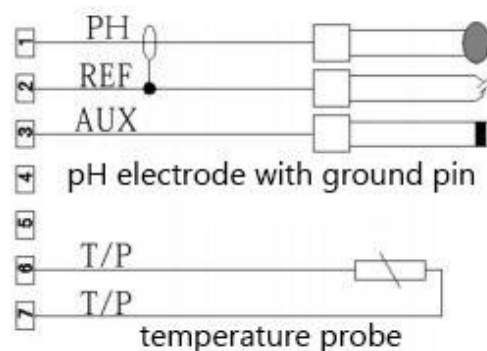
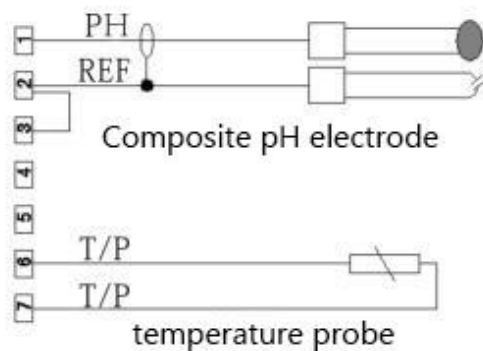


Notice:

- 1) When stripping the pH electrode wire, remove the black conductive rubber inside the outer sheath.



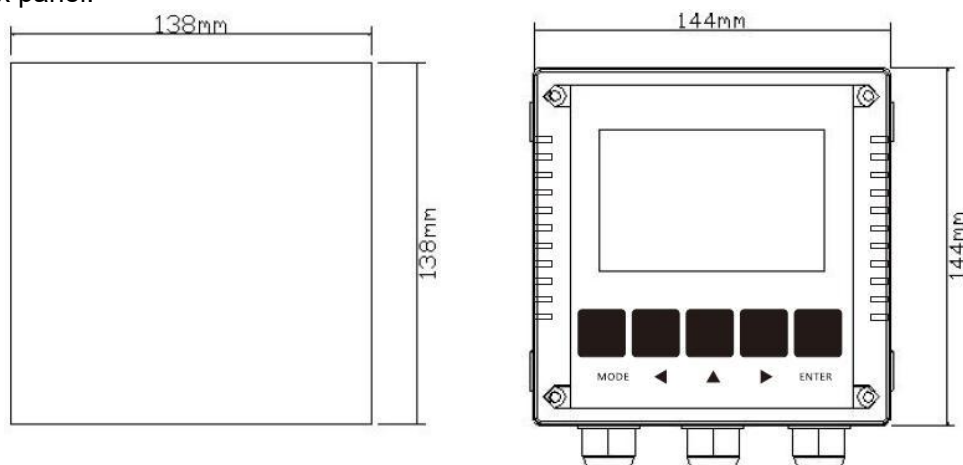
- 2) The two-wire electrode (2, 3 must be connected to a short-circuit piece) and the three-wire electrode (including the ground pin) are connected in different ways. Please see the wiring label.



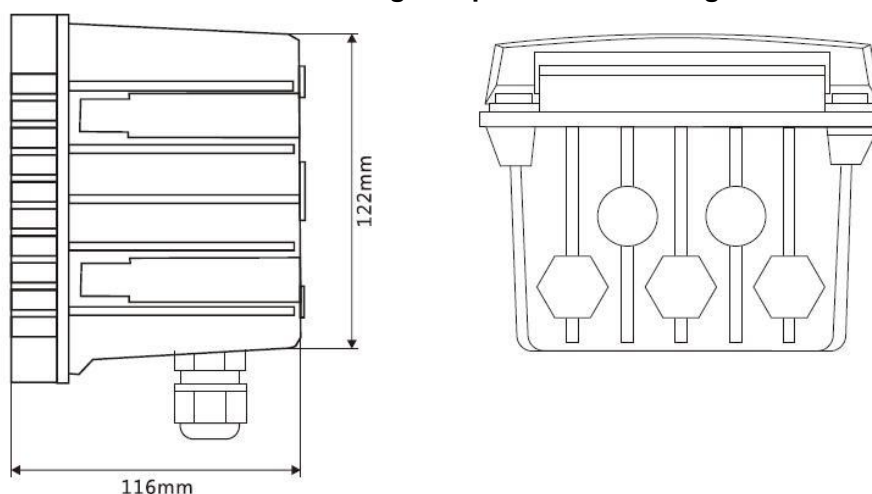
Dimension

The instrument can be installed on the panel, on the wall, or in pipelines.

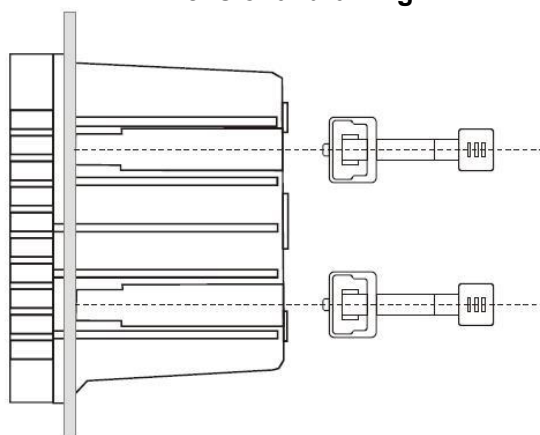
Panel installation: Open a square hole of 138mm Lock. Place the instrument from the front of the distribution box panel, insert the screws from the back cover, and lock the fixing block and rod from the rear of the distribution box panel.



Hole size drawing and panel size drawing



Dimensional drawing



Support installation drawing