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Flow

Pres

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Analyze

Lev

Datasheet
Industrial pH/ORP Controller
SIN-pH8.5

Sinomeasure

Committed to process automation solutions

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Datasheet

Industrial pH/ORP Controller SIN-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

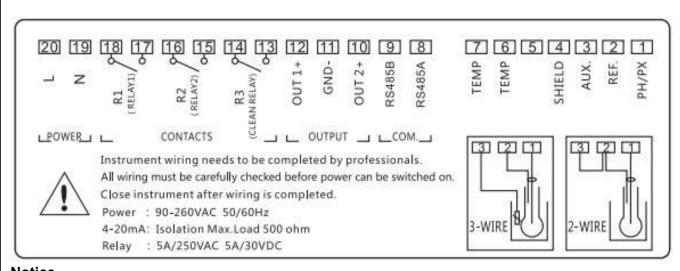
- It is used for industrial pH/mV ORP and temperature measurement.
- It can be installed on the panel, on the wall, or in pipelines.
- It provides 2 current outputs with a maximum load of 500 Ω .
- It provides 3-way control relays.

Industrial pH/ORP Controller

Sinomeasure

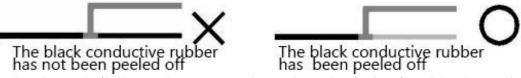
Function pH ORP Measuring range (0.00~+14.00)pH (~2000~+2000)mV Measurement resolution 0.01pH 1mV Measurement accuracy +0.01pH ±1mV Temperature compensation method Pt1000/NTC10K	Parameters		
Measurement resolution 0.01pH 1mV Measurement accuracy +0.01pH ±1mV Temperature compensation method Pt1000/NTC10K 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 ¹²Ω 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 <t< td=""><td>Function</td><td>рН</td><td>ORP</td></t<>	Function	рН	ORP
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 ¹²Ω 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 <td>Measuring range</td> <td>(0.00~+14.00)pH</td> <td>(-2000~+2000)mV</td>	Measuring range	(0.00~+14.00)pH	(-2000~+2000)mV
Temperature compensation method 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 ¹²Ω 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 Losbade (4~20)mA output, maximum load 500Ω Temperature current output 3 Evo.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 Language selection English/Traditional Chinese/Simplified Chinese Protection level PP65 Power supply (90~260)VAC, Power dissipation < 7W Installation method installed on the panel, on the wall, or in pipelines	Measurement resolution	0.01pH	1mV
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 ¹²Ω 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	Measurement accuracy	+0.01pH	±1mV
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Storage ambient temperature(-20~+70)°CDisplayExtra large dot matrix LCD with backlightpH/ORP current output 1Isolated (4~20)mA output, maximum load 500ΩTemperature current output 2Isolated (4~20)mA output, maximum load 500ΩCurrent output accuracy±0.05mARS485Modbus RTUCommunication rate9600/19200/38400Relay contact capacity5A/250VAC/, 5A/30VDCCleaning settingsON: 1 to 1000 seconds. OFF: 0.1 to 1000.0 hoursMultifunctional relayCleaning/cycle alarm/error alarmRelay delay action0-120sData record500,000Language selectionEnglish/Traditional Chinese/Simplified ChineseProtection levelIP65Power supply(90~260)VAC, Power dissipation<7W	Input resistance	>10 ¹² Ω	
DisplayExtra large dot matrix LCD with backlightpH/ORP current output 1Isolated (4~20)mA output, maximum load 500ΩTemperature current output 2Isolated (4~20)mA output, maximum load 500ΩCurrent output accuracy±0.05mARS485Modbus RTUCommunication rate9600/19200/38400Relay contact capacity5A/250VAC/, 5A/30VDCCleaning settingsON: 1 to 1000 seconds OFF: 0.1 to 1000.0 hoursMultifunctional relayCleaning/cycle alarm/error alarmRelay delay action0-120sData record500,000Language selectionEnglish/Traditional Chinese/Simplified ChineseProtection levelIP65Power supply(90~260)VAC, Power dissipationInstallation methodinstalled on the panel, on the wall, or in pipelines	Working temperature	(0~+70)℃	
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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	pH/ORP current output 1	Isolated (4~20)mA output, maximum load 500Ω	
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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	RS485	Modbus RTU	
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	Communication rate	9600/19200/38400	
Multifunctional relay Relay delay action Data record Language selection Protection level Power supply Installation method Cleaning/cycle alarm/error alarm 0-120s 500,000 English/Traditional Chinese/Simplified Chinese IP65 Power dissipation < 7W Installation method Installed on the panel, on the wall, or in pipelines	Relay contact capacity	5A/250VAC/, 5A/30VDC	
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Power supply (90~260)VAC, Power dissipation < 7W installation method installed on the panel, on the wall, or in pipelines	Language selection	English/Traditional Chinese/Simplified Chinese	
Installation method installed on the panel, on the wall, or in pipelines	Protection level	IP65	
	Power supply	(90~260)VAC, Power dissipation<7W	
Weight 0.85kg	Installation method	installed on the panel, on the wall, or in pipelines	
	Weight	0.85kg	

Wiring

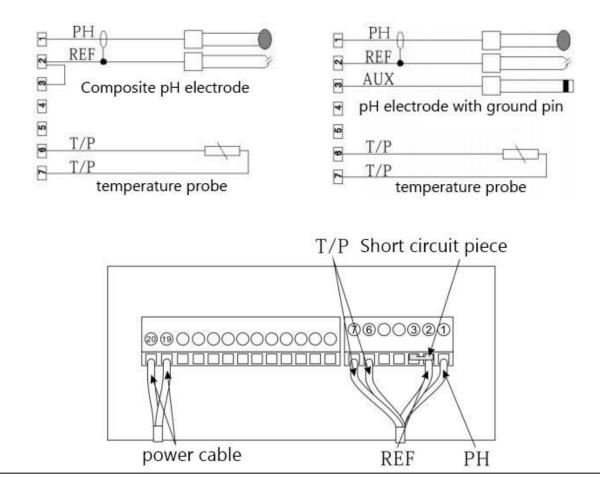


Notice:

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



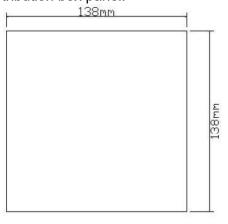
2) The two-wire electrode (2, 3 must be connected to a short-circuit piece) and the three-wire electrode (including the ground pin) are connected in different ways. Please see the wiring label.

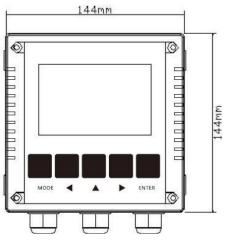


Dimension

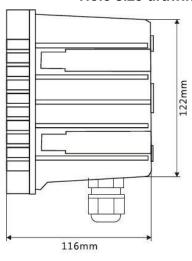
The instrument can be installed on the panel, on the wall, or in pipelines.

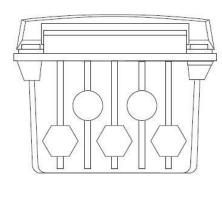
Panel installation: Open a square hole of 138mm Lock. Place the instrument from the front of the distribution box panel, insert the screws from the back cover, and lock the fixing block and rod from the rear of the distribution box panel.



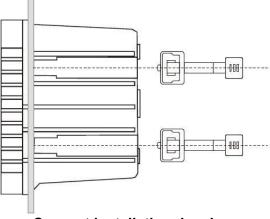


Hole size drawing and panel size drawing





Dimensional drawing



Support installation drawing