



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

PH / ORP controller

SIN-PH162S

Sinomeasure

Committed to process automation solutions

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Datasheet

PH / ORP controller SIN-PH162S

This product is an instrument developed by our company for online monitoring of pH / ORP value. The data can be transmitted to the monitoring room through RS485 or 4-20mA.

The pH / ORP controller is widely used in thermal power, chemical fertilizer, metallurgy, environmental protection, pharmaceutical, biochemical, food, tap water and other industries, and it continuously monitors the pH or ORP value and temperature in the solution. Continuous monitoring data is connected to the recorder through the transmission output to achieve remote monitoring and recording.

Applications

- Thermal power
- Chemical fertilizer
- Metallurgy
- Environmental protection
- Pharmaceutical
- Biochemical
- Tap water



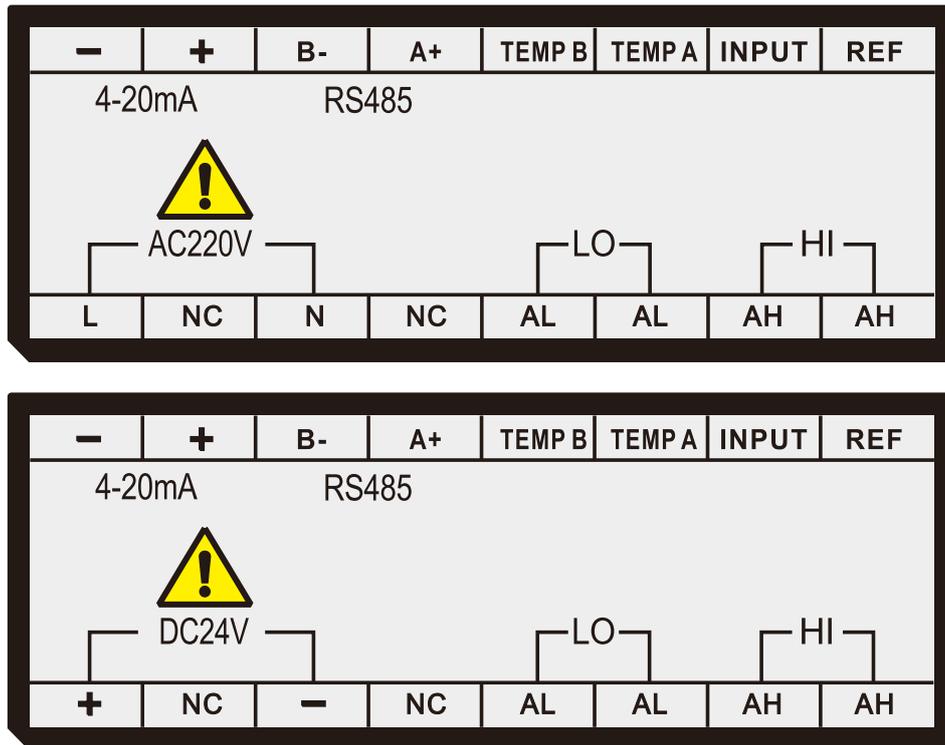
Features

- Modular design
- Isolated transmission output, less interference
- Measure pH / ORP and temperature
- Manually automatically temperature compensation
- High and low alarm
- Alarm switch
- Timeout return function
- Isolated RS485 communication
- Large-size LCD screen

PH / ORP controller

Parameters	
Screen size	3.2 inch monochrome LCD (liquid crystal display)
Dimension	Overall dimension: 96mm×96mm×113mm Cutout dimension: 92mm×92mm
Weight	0.6kg
Variables	pH/ORP
Measure range	pH: 0.00~14.00pH ORP: -1000mV~+1000mV;-1999mV~+1999mV (optional)
Accuracy	pH: ±0.02pH; ORP: ±1mV
Input resistance	≥10 ¹² Ω
Temperature compensation	NTC10K: -10°C~60°C Accuracy ±0.3°C;60°C~130°C Accuracy ±2°C Range: -10°C~130°C Manual/Auto
Current output	Isolated, 4mA ~ 20mA can be set corresponding to pH / ORP measurement range, maximum loop is 750Ω,±0.2%FS
Alarm	2 channels, Pickup/Breakaway AC250V/3A, normally open
Relative humidity	10%RH ~85%RH (no condensation)
Working temperature	0~60°C
Power supply	AC: 220V±10%, 50Hz; DC: 24V
Power consumption	≤5W
Storage	Temperature: -10°C~60°C Relative humidity: 5%~85% (no condensation) Altitude: <2000m

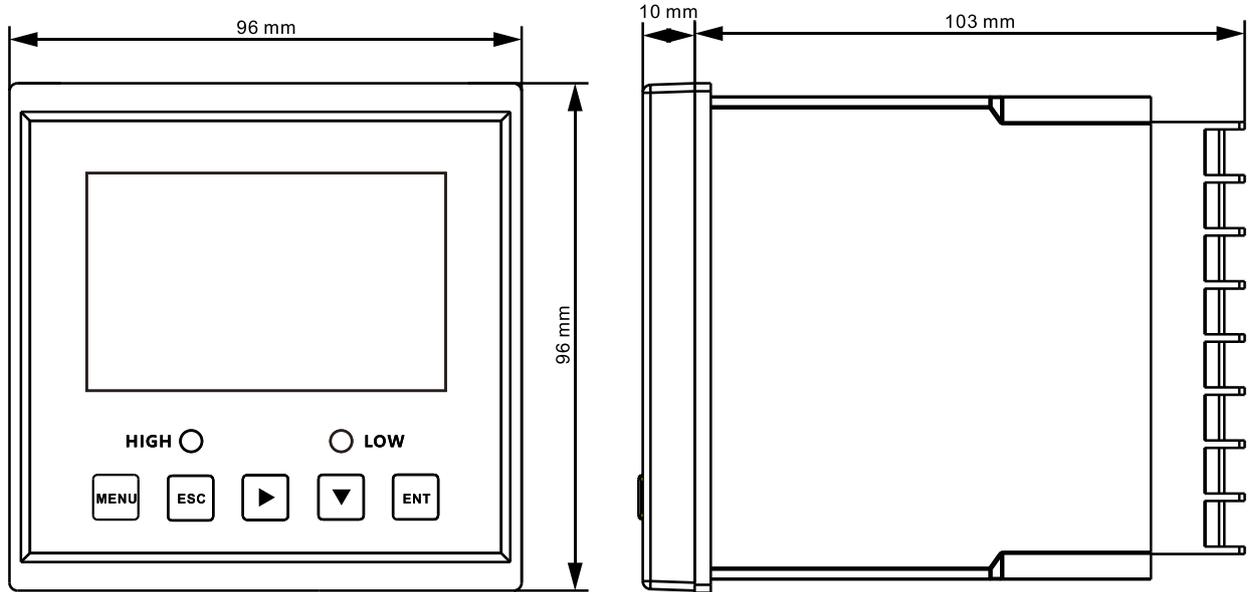
Wiring



Identification of terminal:

- REF: Reference terminal of the electrode
- INPUT: Measuring terminal of the electrode
- TEMP A: Temperature compensation A
- TEMP B: Temperature compensation B
- RS485 A+: RS485 communication interface A+
- RS485 B-: RS485 communication interface B-
- NC: Unidentified
- 4~20mA+: 4~20mA output +
- 4~20mA-: 4~20mA output -
- AC220V(L): AC220V live wire
- AC220V(N): AC220V neutral wire
- LO(AL): Low alarm relay
- HI(AH): High alarm relay
- DC24V+: DC24V +
- DC24V-: DC24V -

Dimension



Applications



— Sewage treatment —



— Acid alkali waste tower —



— Food processing —



— Aquaculture —

Ordering code

SIN-PH162S-RT1-O1-D1-A2-V2													Description	
SIN-PH162S	-	-	-	-	-	-	-	-	-	-	-	-	-	(0~14)pH (-1000~1000)mV
Measuring range	RT1													(0~4)pH (-1999~1999)mV
	RT2													(OPR Accuracy Supplement: OPR: ±3mV PH: ±0.06PH)
Transmit output	O1													(4~20)mA
Communication	D1													RS485
Relay output	A2													2 Relays
Power supply					V1									24VDC(21.6~26.4VDC)
					V2									220VAC(198~242VAC)
					V3									110VAC(99~121VAC)