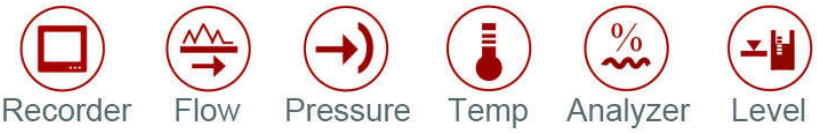

Datasheet

PH / ORP controller

SUP-PH163S

Supmea®

Committed to process automation solutions

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Datasheet

PH / ORP controller
SUP-PH163S

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

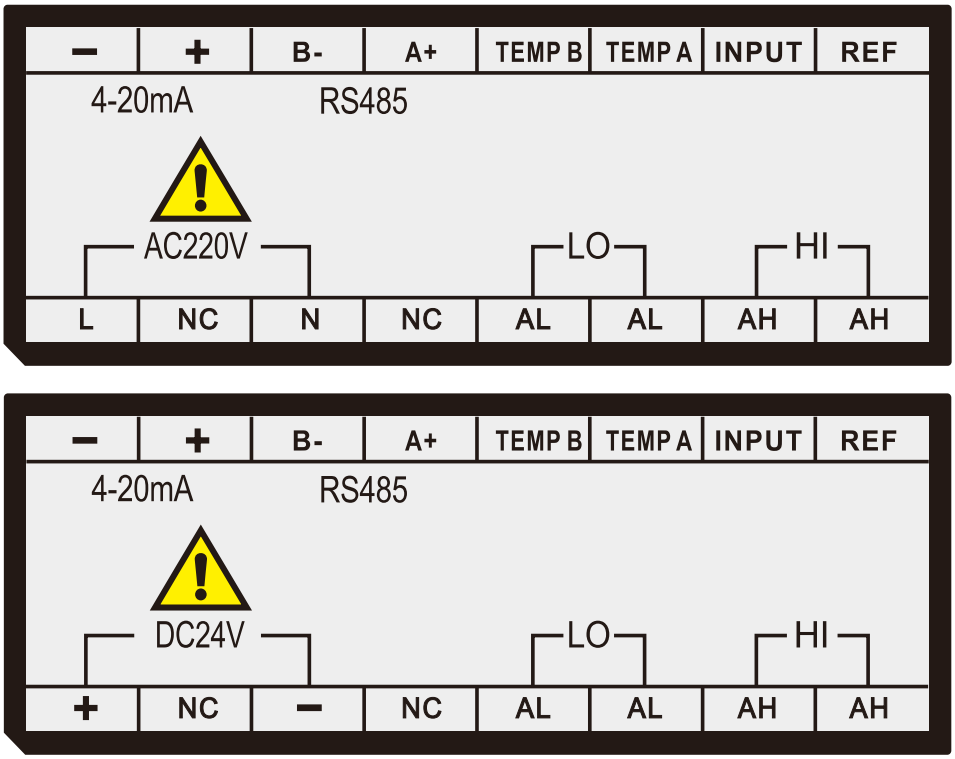
PH / ORP controller

Features

- Modular design
- Isolated transmission output, less interference
- Isolated RS485 communication
- Measure pH / ORP and temperature
- Manually/ automatically temperature compensation
- High and low alarm
- Alarm switch

Parameters	
Screen size	2.8 inch monochrome LCD, Resolution:128*64
Dimension	Overall dimension: 96mm×96mm×113mm Cutout dimension: 92mm×92mm
Weight	0.5kg
Variables	pH/ORP
Measure range	pH：0.00~14.00pH ORP：-2000mV~2000mV
Accuracy	pH：±0.02pH； ORP：(-2000 ~ -1000)mV，±2mV，(-1000 ~ 1000)mV，±1mV (1000 ~ 2000)mV，±2mV
Input resistance	≥10^{12}Ω
Temperature compensation	NTC10K：-10℃~60℃ Accuracy ±0.3℃，60℃~130℃ Accuracy ±2℃ Range：-10℃~130℃ 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
Relative humidity	10%RH ~85%RH (no condensation)
Working temperature	0~60℃
Power supply	AC：220V±10%，50Hz；DC：24V
Power consumption	≤5W
Storage	Temperature：-10℃~60℃ Relative humidity：5%~85% (no condensation) Altitude：<2000m

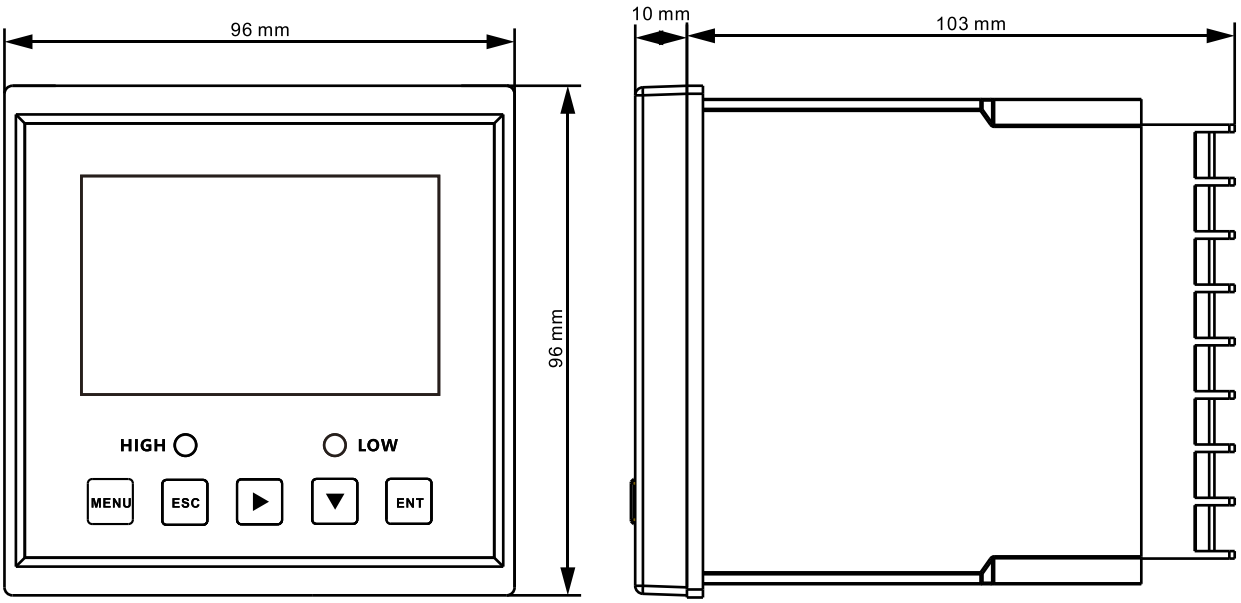
Wiring



Identification of terminal:

- REF：Reference terminal of the electrode
- INPUT：Measuring terminal of the electrode
- TEMPA：Temperature compensation A
- TEMPB：Temperature compensation B
- RS485A+：RS485 communication interface A+
- RS485B-：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

SUP-PH163S-HC-B-2-C-E															Description
SUP-PH163S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Measuring range	HC														（0-14）pH，（-2000-2000）mV
Transmit output		B													4-20mA+RS485
Relay output			2												2 Relays
Power supply				C											24VDC
				E											220VAC