

## PCPH01 PH online analyzer



- Design of board card modularity, for convenience of assembly and configuration.
- 2.4 inches 12864 lattice screen.
- Isolating transmitting output, with little interference.
- Isolating RS485 communication.
- Can be PH / ORP measurement, temperature measurement,
- upper and lower limit control, transmission output, RS485 communication.
- Configurable manual and auto temperature offset function.
- Configurable upper/lower limit warning and delay.
- Configurable hummer and LCD backlight switch.
- Addition of universal password.
- Industrial controlled door keep, to avoid instrument halted.

Independent research and development of electronic online monitoring PH / ORP value, through the RS485 or current transmission remote access to the monitoring room for record and save.



PH tester is one of the intelligent online chemical analysis equipment, is a widely used in thermal power, chemical fertilizer, metallurgy, environmental protection, Pharmaceutical, biochemical, food and tap water solution PH value or ORP value and temperature of the continuous monitor. Continuous monitoring data through the transmission output connection recorder to achieve remote monitoring and recording, you can also connect the RS485 interface through the MODBUS-RTU protocol can be easily connected to the computer to achieve monitoring and recording.

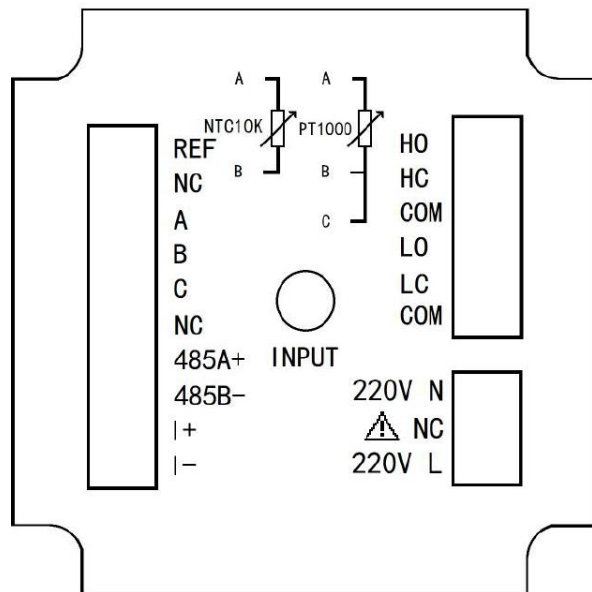
Application:

- Water treatment and water cleaning
- Hydraulics water and pneumatics
- Laboratory and food process
- Chemical industry

#### Technical indicators

Measuring range	PH (0-14 PH); ORP (-1000- + 1000 mV (customization: -2000- + 2000 mV))
Stability	$\leq 0.02$ PH / 24H; $\leq 3$ mV / 24H
Accuracy	PH: $\pm 0.02$ PH; OPR: $\pm 1$ mv
Input impedance	$\geq 10^{12} \Omega$
output	4-20 mA
Maximum Lop	750 $\Omega$ , 0.1% FS
Temperature range	-10° C-130° C; accuracy: $\pm 0.5^{\circ}$ C
Temperature compensation	-10-130 °C Manual / automatic
Power supply	AC220V $\pm 10\%$ , 50Hz / 60Hz (customization: AC110V $\pm 10\%$ , 50Hz / 60Hz or DC 24V)
Relay output	One high alarm, one low alarm(3A/250V/AC), regular on
RS485 function	compatible with the standard MODBUS-RTU communication protocol
Span temp. coefficient	0.02%F.S. / °C ( $\geq 100$ kPa)   0.04%F.S. / °C ( $< 100$ kPa)
Relay alarm	two normally open normally closed alarm relay AC250V, 3A
Cable length	5m 10m 15m 20m
Language	Chinese and English can be switched

## Wire connection



- INPUT: Measuring terminal of the electrode
- REF: Reference terminal of the electrode
- NC: Unidentified
- A: Temperature compensation terminal A, NTC10K and PT1000 connect here
- B: Temperature compensation terminal B, NTC10K and PT1000 connect here
- C: Temperature compensation terminal C, PT1000 three-wire temperature grounding, PT1000 two-wire need to be short-connected to TEMPB, not NTC10K.
- NC: Unidentified


- 
- RS485 (A +): RS485 communication interface A +
  - RS485 (B -): RS485 communication interface B-
  - 4-20mA (+): 4-20mA output end+
  - 4-20mA (-): 4-20mA output end-
  - AC220V (L): AC220V FireWire
  - AC220V (N): AC220V zero line
  - HO: high alarm normally open relay
  - HC: high alarm normally closed relay
  - LO: low alarm normally open relay
  - LC: low alarm normally closed relay
  - COM: common





## Push-button Operation

Button display

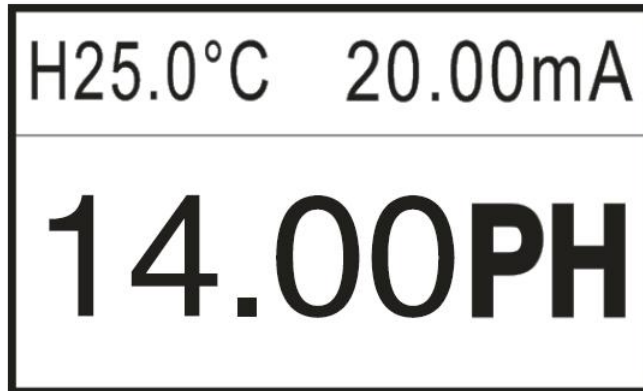


### Definition of buttons

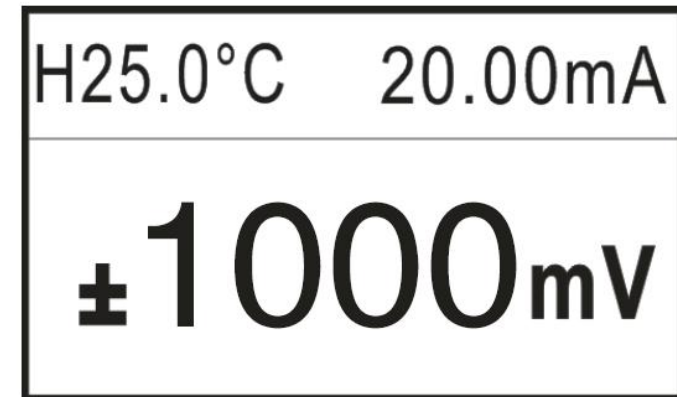
Sign	Button	Function description
	EXIT	Check related warning status on the “monitoring page” Return to previous level page in the up& down level page linked to “menu page”

	MOVE RIGHT	Make a recurrent selection of digit of parameters Remove the original indication value in the “conductivity calibration page”
	MENU	Enter the MENU on the “monitoring page” Exit the MENU on the “menu page”
	MOVE DOWN	Select the related menu on the “menu page” Modify the values in the configuration state
	ENTER	Enter the sub-menu or confirm modification on the “menu page”

■ PH monitoring picture



■ ORP monitoring picture



Optional accessory

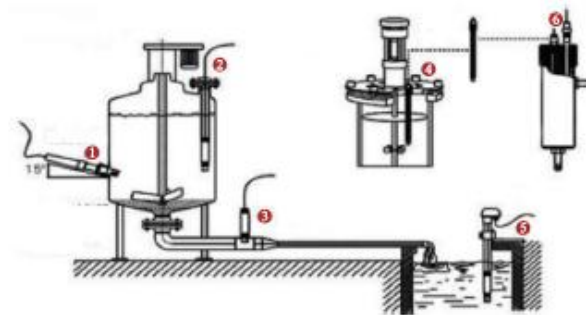
PTFE cover can prevent the electrode from damage in strong acid and alkaline

■ Technical parameters

- Male tread type: 3/4NPT
- Female tread type: PG13.5
- Material: PTFE

### ■ Installation method

- 1.Side wall installation
- 2.Flange mounted at the top
- 3.Pipe installation
- 4.Top installation
- 5.Submersible installation
- 6.Flow-through installation



### ■ Note

- The interface must be in 15° oblique angle, or it will affect the normal test and use of the electrode. We won't be responsible for any results due to this.

## How to order

Please fill in this form and email it to us.

Medium	
PH	
Temperature range	
Power supply	
Cable Length	
Temperature compensation	
Calibration points	

Wotian reserves the right to make changes to any product in this publication without notice. The information we supply is believed to be accurate and reliable as of this printing.

### Contact us

Nanjing Wotian Technology Co.,Ltd.

Add: 5 Wenying Road, Binjiang Development Zone, Nanjing, 211161, China

Sales Manager: Wuzhou Lian

MP: 0086-13998828452

Email: [lianwuzhou@wtsensorus.com](mailto:lianwuzhou@wtsensorus.com)

Anshan Wotian Sensor Corp. (Branch Factory)

Add: 262, Yueling Road, Gaoxin District, Anshan, China

Sales Manager: Wuzhou Lian

MP: 0086-13998828452

Email: [lianwuzhou@wtsensorus.com](mailto:lianwuzhou@wtsensorus.com)