

# Intelligent pH/ORP Transmitters

## PC-3310/PC-3310-RS

**IntertechRio**  
instrumentação-controle de processo

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Calibration Info	
1. Cal. Time:	2010/01/01 00:01
2. Mode:	TECH-Three Points
3. Slope:	-59.2 mV/pH @25.0°C
4. Asym:	0.0 mV
5. Sensitivity:	100.1 %
6. Determination:	1.0000
7. Return:	Manual

Calibration Info.			
Point	Buf.(pH)	Volt.(mV)	Temp.(°C)
1	4.01	177	25.0
2	7.00	-0	25.0
3	10.00	-178	25.0

Multi - Cal.	
1	4.01
2	7.00
3	10.00

Overview	
1. Mode:	pH
2. Temp. MTC:	Setting: 25.0°C
3. Rel1: Hi, SP:	10.00pH, DB: 0.10pH
4. Rel2: Lo, SP:	4.00pH, DB: 0.10pH
5. Cln:	OFF
6. pH_mA:	4-20mA, 2.00pH, 12.00pH
7. Temp_mA:	4-20mA, 0.0°C, 100.0°C

### Applications:

- Industrial Process
- Chemical Process
- Water & Wastewater Treatment
- Scrubber
- Biochemistry
- Environmental protection

### Features:

- 144 x 144 mm Intelligent pH/ORP Transmitter.
- Waterproof and dustproof design
- Solution-ground design eliminate interference of ground potential
- Large LCM with auto-sense backlight and contrast setting function
- User-friendly operation with text and graphic illustration, clear signs and easy to understand
- Multi-Cal calibration, Tech and NIST buffer automatic recognition
- Max. 3-point calibration, the calibration line calculated by linear regression, the last calibration data displayable
- With password and multi-key design-security protection enhancement
- Automatic temperature compensation, NTC30K or PT 1000 selectable
- Two sets of isolated current output DC 0/4~20mA, max. load 500Ω
- Hi/Lo, Hi/Hi, Lo/Lo selectable two limited contact outputs with programmable set-points and hysteresis
- Gradually continuous sample measurements average function to enhance stability
- Automatic sensor clean function with programmable time interval
- Three separate LED indicated alarms for recognition at a glance even from far place
- IP 65 (NEMA 4X) approved

### PC-3310-RS Only:

- Measuring value can be selected for figure or chart display
- Trace mode can display historical measured value curve from 3-minute to 4-week program
- Equipped with logbook function
- Max. 5-point calibration, with customer definition buffer setting and calibration curve, which can be displayed
- Equipped with one analog output and RS-485 interface
- Product adjustment function for field correction

**SUNTEX**  
ISO 9001 Certified





# Intelligent pH/ORP Transmitters

## PC-3310/PC-3310-RS

### Specifications:

Model		PC-3310	PC-3310-RS
Measuring mode		pH/ORP/Temp.	
Ranges	pH	-2.00~16.00 pH	
	ORP	-1999~1999 mV	
	Temp.	-30.0~130.0°C	
Resolution	pH	0.01 pH	
	ORP	1 mV	
	Temp.	0.1°C	
Accuracy	pH	± 0.01 pH ± 1 digit	
	ORP	± 0.1% ± 1 digit	
	Temp.	± 0.2°C ± 1 digit with temperature error correction function	
Temperature compensation		Automatic with NTC 30KΩ or PT-1000	
		Manual adjustment	
Calibration mode		Tech, NIST & Any, up to three points	Tech, NIST, Any & Define buffers, up to five points
Ambient Temperature		0~50°C	
Storage Temperature		-20~70°C	
Input Impedance		>10 <sup>12</sup> Ω	
Display		Large LCM with auto-sense backlight and contrast function	
		Text mode	Text, Chart or Trace mode
Language		English, Traditional Chinese & Simplified Chinese	
Real-time chart mode		—	3 minutes real-time dynamic graph
Analog output 1		Isolated DC 0/4~20mA corresponding to pH/ORP, max. load 500Ω	
Analog output 2		Isolated DC 0/4~20mA corresponding to Temp., max. load 500Ω	—
Logbook		—	50 data records
Serial Interface		—	RS-485(MODBUS RTU or ASCII)
Setting	Contact	240VAC, 0.5A max. (recommend)	
	Activate	Hi/Lo, Hi/Hi, Lo/Lo selectable two limited programmable, ON/OFF	
Wash	Contact	240VAC, 0.5A max. (recommend)	
	Time	ON: 0~99min.59sec. OFF: 0~999 hours 59min.	
Voltage output		DC ± 12V, 1W max.	
Power Supply		100~240VAC±10%, 6W max. , 50/60 Hz	
Installation		Wall or pipe or panel mounting	
Dimensions		144 mm x 144 mm x 115 mm (H x W x D)	
Cut off Dimensions		138 mm x 138 mm (H x W)	
Weight		0.8 kg	
Protection		IP 65 (NEMA 4X)	

\*The specifications and appearance of the instrument are subject to change without notice.

### Optional Accessories:

- |                                |  |
|--------------------------------|--|
| 1.pH electrode                 | 9.Junction box                                     |
| 2. ORP electrode               | 10.Flow-through chamber                            |
| 3.PT-1000 ATC probe            | 11.Immersion electrode holder 1M, 2M and 3M        |
| 4.NTC 30KΩ ATC probe           | 12.Industrial electrode protection housing/fitting |
| 5.Field indication transmitter | 13.Extension cable                                 |
| 6.pH buffer solutions          | 14.Sensor cleaning kit                             |
| 7. ORP buffer solution         | 15.Sun shield                                      |
| 8.Cleaning solution            | 16.Stainless holder support base                   |



Front clamshell design for easy wiring