

Microprocessor pH/ORP Transmitter

PC-3100/PC-3100RS



Applications:

- Water & Wastewater Treatment
- Recycling
- Chemical Process
- Scrubber
- Industrial Process
- Fermentation Process

Features:

- 144 x 144mm Microprocessor pH/ORP Transmitter
- Waterproof and dustproof design
- Solution-ground design eliminate interference of ground potential
- Large LCD display with auto-sense AUTO/ON/OFF programmable illumination
- Simultaneous display of measurement value and temperature
- Two points Tech., NIST, or any buffer calibration
- With password and multi-key design, security protection enhancement
- Automatic temperature compensation, NTC30K or PT 1000 selectable
- Two sets of isolated current outputs DC 0/4~20mA, Max. 500Ω
- Hi/Lo two limited contact outputs with programmable set-points and hysteresis
- Gradually continuous sample measurements average program to enhance stability
- Automatic sensor clean function with programmable time interval and hysteresis
- LED indicator alarm and wash status signal
- IP 65 (NEMA 4X), CE approved

PC-3100RS only:

- Equipped with one analog output and RS-485 interface (Modbus protocol)
- Up to three points TECH./NIST buffer calibration & two points any buffer calibration
- Real time clock display function



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Specifications:

Model		PC-3100	PC-3100RS
Measuring modes		pH/ORP/Temp.	
Ranges	pH	-2.00~16.00pH	
	ORP	-1999~1999mV	
	Temp.	-30.0~130.0°C	
Resolutions	pH	0.01pH	
	ORP	1mV	
	Temp.	0.1°C	
Accuracy	pH	±0.01pH ± 1 digit	
	ORP	±1mV ± 1 digit	
	Temp.	±0.2°C ± 1 digit	
Temperature Compensation		Automatic with NTC30KΩ or PT1000	
		Manual adjustment	
Ambient Temp.		0~50°C	
Storage Temp.		-20~70°C	
Input Impedance		> 10 ¹² Ω	
Display		Large LCD display with environment light sensor auto/manual illumination function	
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	—
Serial Interface		—	RS-485 (MODBUS RTU or ASCII)
Calibration mode		Any , Tech & NIST buffer, up to Two points	Any , Tech & NIST buffer, up to three points
Setting	Contact	240 VAC, 0.5A max. (recommend)	
	Activate	Two sets Hi/Lo Programmable, ON/OFF	
Wash	Contact	240 VAC, 0.5A max. (recommend)	
	Time	ON: 0~9999 sec./ OFF: 0~999.9 hours	
Voltage Output		DC±12V	
Power Supply		100~240VAC±10%, 50/60Hz	
Installation		Wall or Pipe or Panel Mounting	
Dimensions		144 mm × 144 mm × 115 mm (H×W×D)	
Cut off Dimensions		138 mm × 138 mm (H×W)	
Weight		0.8 kg	
Certification		IP 65 (NEMA 4X), CE	

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

Optional Accessories:

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| 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 solutions | 15.Recorder |
| 8.Cleaning solutions | 16.Sun shield |



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