Intelligent pH/ORP Transmitters

PC-3110 / PC-3110-RS

Applications:

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

Features:

- 96 x 96mm Intelligent pH/ORP Transmitter
- Waterproof and dustproof design
- Solution-ground design eliminating 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 and 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 at 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
- LED indicated alarm or washing status signal
- IP 65 (NEMA 4X), CE approved

PC-3110-RS / PC-3110-RS-P 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
- Field correction function
- Product adjustment function for field correction

PC-3110-P / PC-3110-RS-P Only:

- Equipped with PID control function to maximize the stability of process

SUNTEX
ISO 9001 Certified

Intelligent pH/ORP Transmitters
PC-3110/PC-3110-RS

Specifications:

Model	PC-3110	PC-3110-P	PC-3110-RS	PC-3110-RS-P
Measuring modes	pH/ORP/Temp.			
Ranges — pH	-2.00~16.00 pH			
Ranges — ORP	-1999~1999 mV			
Ranges — Temp.	-30.0~130.0℃			
Resolution — pH	0.01 pH			
Resolution — ORP	1 mV			
Resolution — Temp.	0.1℃			
Accuracy — pH	± 0.01 pH ± 1 digit			
Accuracy — ORP	± 0.1% ±1 digit			
Accuracy — Temp.	± 0.2℃ ±1 digit			
Repeatability	±0.05pH			
Temperature compensation	Automatic with NTC 30KΩ or PT-1000			
	Manual adjustment			
Ambient Temperature	0~50℃			
Input Impedance	$>10^{12}\Omega$			
Display	Large LCM with auto-sense backlight and contrast function			
	Text mode		Text, Chart or Trace mode	
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)	
Logbook	-		50 event records	
Calibration mode	Any, Tech & NIST, Three Points		Any, Tech, NIST & Custom definition buffer setting table, up to Five Points	
Setting — Contact	240VAC, 0.5A max. (recommend)			
Setting — Activate	Hi/Lo, Hi/Hi, Lo/Lo selectable two limited programmable, ON/OFF			
	-	*PID Control	-	*PID Control
Wash — Contact	240VAC, 0.5A max. (recommend)			
Wash — Time	ON:0~99min.59sec. OFF:0~999 hours59min.			
Voltage output	DC ± 12V, 1W max.			
Power Supply	100~240VAC±10%, 7W max. , 50/60 Hz			
Installation	Wall or pipe or panel mounting			
Dimensions	96 mm x 96 mm x 132 mm (H x W x D), 1/4 DIN			
Cut off Dimensions	93 mm x 93 mm (H x W)			
Weight	0.5 kg			
Protection	IP 65 (NEMA 4X)			

*PID Control Function: P, PI, PD, PID control
*PID Control Output: Pulse Length, Pulse Frequency, Analogout
What's included? 2 Panel Mounting clips, pH 4, pH 7 buffer solutions,
Plastic L shaped electrode holder support, Precision driver for wiring

Optional Accessories:

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

114.7
98
125
112
85.6
26 26
98
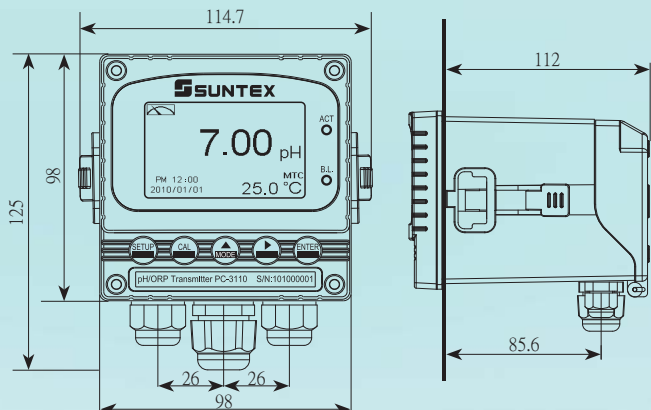
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