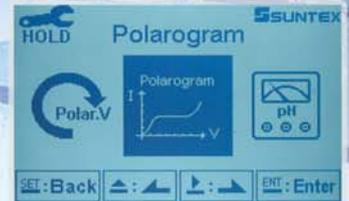


Intelligent Residual Chlorine Transmitter

CT-6110-POL



Information SUNTEX
1. Cl Cal:
-Time 2013/05/20 17:03
-Zero -0.08uA
-Slope 100.0%
2. Motor: OFF
3. Return: Auto, 03m.00s
CLR:Back up/down arrows ENT:Enter

Applications:

- 🔥 Drinking water
- 🔥 Raw water sanitary
- 🔥 RO water dechlorination

- 🔥 Swimming pool
- 🔥 Cooling water

Features:

- 🔥 96 x 96mm intelligent residual chlorine & pH dual-channel transmitter
- 🔥 User-friendly operation with text and graphic illustration, clear signs and easy to understand
- 🔥 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 event logbook function
- 🔥 Large LCM display with auto-sense backlight and contrast setting function
- 🔥 Polarogram scanning function to find suitable polar voltage
- 🔥 Electrode open circuit & water outage diagnostic function for auto motor shut down protection
- 🔥 Simultaneous display of residual chlorine value, temperature and pH value
- 🔥 Automatic pH & temperature compensation
- 🔥 Cl₂/pH selectable, two individual limited contact outputs with programmable set-points and hysteresis
- 🔥 Equipped with Cl₂/pH isolated current output and RS-485 MODBUS interface
- 🔥 Gradually continuous sample measurements average function to enhance stability
- 🔥 With password and multi-key design, enhanced security protection
- 🔥 Auto clean/Auto zero function with programmable time interval
- 🔥 LED indicated alarm or washing status signal

Sensor assembly:

- 🔥 Non-reagent type Cl₂ sensor reduces operation cost
- 🔥 Rotating sensor auto clean reduces maintenance work
- 🔥 Constant rotating sensor ensures the measurement stability
- 🔥 Optional pH measurement for compensation
- 🔥 Over heat motor protection
- 🔥 Easy removing sensor assembly to the maintenance position



SUNTEX
ISO 9001 Certified



Intelligent Residual Chlorine Transmitter CT-6110-POL

Specifications:

Model		CT-6110-POL
Measuring mode		Residual (Free) Chlorine & pH / Temperature, Simultaneous display
Measuring range	Free Cl ₂	0.00~3.00 mg/l (Free Cl ₂ corresponding range freely adjustable)
	pH	-2.00~16.00 pH
	Temp.	0.0~60.0°C
Resolution	Free Cl ₂	0.01 mg/l
	pH	0.01 pH
	Temp.	0.1°C
pH compensation / accuracy		pH sensor auto compensation / manual compensation / OFF / ±0.01pH (±1 digit)
Temp. compensation / accuracy		NTC-30K (compensation range: 0~45°C) / ±0.2°C (±1 digit)
Display		Large LCM with sensitization sensor for auto / manual illumination function and contract function
		Text mode: Numerical display
		Chart mode: 3 mins real-time dynamic graph (Free Cl ₂ corresponding range freely adjustable) Trace mode: Set up from 3 mins to four weeks duration of the measured value trend graph (Free Cl ₂ corresponding range freely adjustable)
Analog output		Isolated DC 0/4~20mA corresponding to Free Cl ₂ or pH, max. load 500Ω
Voltage output		DC ± 12V, 1W max. for PH-300T (Optional)
Serial interface		Isolated RS-485 (Modbus RTU or ASCII)
Logbook		50 event records
Setting	Contact	240VAC, 0.5A Max. (recommended)
	Activate	Two individual, Free Cl ₂ or pH, Hi/Lo selectable, limited programmable
Clean / Auto zero	Contact	240VAC, 0.5A Max. (recommended)
	Time	ON:0~99 min. 59 sec. OFF:0~999 hours 59 min.
Cl ₂ calibration	Zero point	Electrode open circuit or apply activated charcoal filtered water (residual chlorine free water) / pure water
	Span	Sampling DPD measurement input calibration or standard buffer calibration
pH calibration		Any, Tech & NIST buffer calibration
Diagnostic function		Temperature sensor, zero-point & slope diagnosis, water/power outage, logbook record or alarm symbol
Measurement system		
Measuring principle		Polarographic (No reagent needed for measurement)
Residual chlorine electrode		2 in 1 rotating electrode (Working electrode: gold, Counter electrode: silver) With relative slope index for electrode aging determination
Temperature probe		NTC-30K
pH electrode		Optional (No need for pH compensation when pH range within pH 6.5~7.5)
Cl ₂ electrode cleaning		Ceramic beads auto cleaning
Motor protection		Auto over heat protection
Water outage / Electrode open diagnosis		When water outage or electrode open, after auto diagnosis the motor auto shuts down
Repeatability		±2% Full Scale
Linearity		±5% Full Scale
Accuracy		±2% Full Scale
Response time		<60 sec for 0~2mg/l, or < 90 sec for 2~3mg/l (90% response time)
Other specifications		
Flow-through chamber		Transparent, acrylic flow-through chamber
Connection		1/4" NPT thread
Sample temperature		0~50°C
Inlet pressure		0.01 ~ 2 kgf/cm ² (as not overflow as the criteria)
Inlet flow		0.1~2 L/min (as not overflow as the criteria)
pH range requirement		pH 5~9 (Optional pH sensor for auto compensation)
Ambient temperature		0~50°C
Storage temperature		-10~70°C
Ambient humidity		5~95%RH
Power voltage / Frequency (To be designated when ordering)		01: AC220V (-15~+10%) / 60Hz, 02: AC220V (-15~+10%) / 50Hz, 03: AC110V (-15~+10%) / 60Hz
Power		Approx. 35W
Installation		Wall mounting
System dimensions		~316mm × 306mm × 211mm (H×W×D)
Weight		Approx. 4.0kg
Protection		Transmitter: IP 65 (NEMA 4X)

*The specifications and appearance of the instrument are subject to change without notice.
Accessories: sensor assembly (Cl₂ sensor, temp. probe, motor), flow-through chamber, measuring cup, ceramic beads, inlet/outlet coupling, wall mounting frame

Spare & optional accessories:

- 1.Replacement Cl₂ sensor
- 2.Replacement ceramic beads
- 3.pH sensor and housing
- 4.pH buffer solutions
- 5.Motor shield cover



At maintenance position with optional motor shield cover



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