

Residual Chlorine Concentration Controller CL-60WL



Cost saving with no wasted water

Low cost and easy to use swimming pool residual chlorine controller

CL-60WL is a low cost and easy to use controller for continuously measuring residual chlorine in swimming pools and drinking water.

The 3-electrode polarograph sensor is able to measure many kinds of water such as swimming pool water and drinking water etc.

The electrode is automatically cleaned by ceramic beads and electrolytic cleaning (manual/automatic/interval) to avoid chemical residue buildup which could otherwise give false readings.

- No wasted water because of inline type flow cell
- Thanks to 3-electrode polarograph sensor, it is not influenced by impurities in test water or conductivity and gives superior linearity.
- Multi-voltage power source from AC90 to 240V.
- Electromagnet metering pumps can be directly controlled (proportional dosing) by the pulse control output.
- Flow cell is easily removed for maintenance.
- Pump control output can be manually interrupted during abnormal conditions to prevent excessive chlorine injection.
- Flow proportional control of the dosing pump is possible by proportional DC4-20mA input signals from a flow meter installed in the main water piping.
- Override function allows pump operation at maximum speed (360 spm with electromagnet metering pump) by contact input during super chlorination or pump maintenance.
- Alarm output can be set optionally (NO x 3)



Specifications

Measured element	Residual chlorine (HOCl)	
Measuring principle	Polarographic	
Measuring method	Beads cleaning type micro-solid 3-electrodes	
Measuring range	0 - 2.00 mg/L	
Display	LCD with backlight (Residual chlorine concentration, spm output, set value)	
Reproducibility	±5% of full scale (when flow rate, pH, temp. and conductivity is constant.)	
Test water pH range	pH6.0 - 8.0	
Conductivity range	10 mS/m or more	
Test water temp. range	0 - 45 °C (No freezing)	
Temp. compensation	Automatic temp. compensation by Pt1000Ω	
Transfer output	DC0/4 - 20 mA (to be set optionally) Insulation type, Load resistance 500Ω or below	
Contact output	Pump control output	Potential free contact NO x 1
	Alarm output	AL1, AL2, AL3 (Kinds of alarm can be set optionally) NO x 3
Contact capacity	Pump control output	AC240V 0.1A
	Alarm output	AC250V 10A Resistance load
Electrolytic cleaning of electrode	Electrolytic cleaning sequence starts by any of following operation. Automatic cleaning at the time of power turned on. Manual cleaning by key operation. Automatic cleaning by setting interval time.	
Power source voltage	AC90V - AC240V 50/60Hz	
Power consumption	Approx. 25VA	
Ambient temperature range	0 - 40 °C	
Installation	Wall mount or 50A pole stand	

Specifications of flow cell (RF-10)

Construction	Inline type flow cell with beads cleaning mechanism
Test water flow rate	1.0 L/min. ±10%
Pressure resistance	0.5 MPa (at test water inlet)
Test water temp. range	0 - 45 °C (No freezing)
Wet-end material	PVC, Acryl, Alumina ceramic, Silicone rubber, FKM rubber
Test water inlet	R1/2
Test water outlet	R1/2

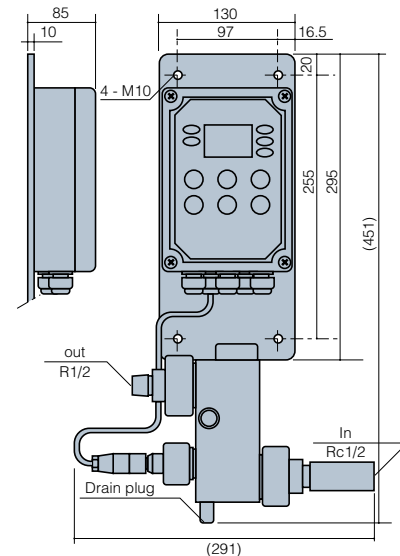
Specifications of sensor (RS-10L-A[Au])

Pressure resistance	0.5 MPa	
Test water temp. range	0 - 45 °C (No freezing)	
Temp. measuring method	Temp. compensation by built-in Pt1000.	
Installation method	To be mounted on RF-10 flow cell.	
Electrode cleaning method	Mechanical polishing by beads and electrolytic cleaning by controller.	
Cable	Length	40 cm (Type:VC5H-0040C)
	Connection	Connector

Specifications of constant flow valve (RC-1000-15A)

Flow rate set value	1.0 L/min
Flow rate accuracy	±10%
Max. usable pressure	0.7 MPa
Usable pressure range	0.05 - 0.5 MPa
Wet-end material	SUS304
Connection bore	Rc1/2

Dimensions in mm



Option

Flow switch FC-SM40-100V

The switch to detect low limit flow rate. The switch is ON when flow rate becomes lower than set value.

Set range : 0.2 - 2.4 L/min
Bore : Rc1/2
Output : Contact output
Resistance load 110V AC/DC 0.25A 20W
at cosφ=1 max
Alarm : Alarm is activated when flow rate becomes lower than set value



Filter housing 10-KFKC-1/2

Transparent casing for filter cartridge.
(Note) Ask us for nontransparent type.



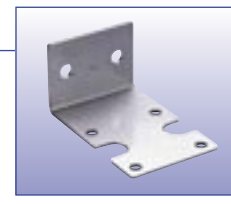
Filter cartridge SFP-1100 (100μm)

To remove dust or foreign matters in test water.



Mounting hardware 10-KFKC-FIT

To mount filter housing.



(Note) Relay terminal box, dedicated cable, electrolytic cleaner (Polaro-checker) are available.
Ask us for details.

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Caution for safety use: Before use of pump, read instruction manual carefully to use the product correctly.
Actual pumps may differ from the photos. Specifications and dimensions are subject to change without prior notice. For further details please contact us.