

Chlorine

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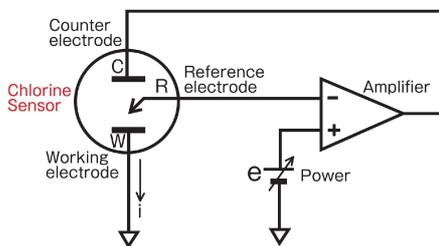
RC-100C

Residual Chlorine Monitor

■ Outline

This monitor is mainly used to continuously detect residual chlorine in the water by 3 electrode system and polarographic method without using reagent. The dirt sticking to the electrode and also chemical dirt can be prevented by electrical and chemical cleaning function operated from outside together with bead-grinding. It differs from 2 electrode system and capable of stable measurement without being affected by interference substance and conductivity.

■ Measuring Principle Drawing



Bead cleaning system

■ Meter

Measuring object	Mode A: free residual chlorine Mode B: total residual chlorine
Measuring theory	No-reagent polarographic method, minute solid 3 electrode system
Measuring system	Bead-washing type, minute solid 3 electrode system
Measuring range	0.00~ 3.00mg/ℓ(standard)
Display	Digital 3 digits LCD Minimum resolution: 0.01mg/ℓ
Accuracy	Within ± 5% of full scale(flow volume, pH, temperature, conductivity at the certain time)
Sample water pH range	Mode A: pH 5.8~8.0 Mode B: pH 5.8~8.6
Corresponding time	90% within 1 minute
Temp. compensation	Automatic temperature compensation by Thermister
Transmission output	DC4~20mA(isolation type), max. resistant load 500Ω
Electrolytic wash	Electrolytic washing sequence by one of the below operation: 1) CLEAN. Terminal(cleaning trigger terminal) short circuit 2) CLEAN. Key input 3) POWER ON(power on cleaning) 4) 24 hour timer
Power source	AC85~250V 50/60Hz
Fixing	Fixing on the wall (standard) or fixing 50A pipe

■ Sampling part

Model	FC-35
Structure	Overflow type flow cell
Sampling flow	0.35~ 0.7 ℓ/min
Liquid junction	PVC, PA, Alumina, silicone rubber
Sample inlet	Outer diameter 18φhose nipple
Sample outlet	Outer diameter 18φhose nipple(open air, no back pressure)

■ Sensor

Model	RE-22B(standard)
Sample temp.	0~45℃(no freezing)
Temp. compensation	Automatic temperature compensation by Thermister
Fixing	Fix on the side of FC-35 measuring part
Electrode cleaning	Mode A: Mechanical grinding cleaning with beads Mode B: Mechanical grinding cleaning with beads and continuous electrolytic cleaning

Applications

Used for bath tubs, hot spring water, water-purification plant, industrial water, city water.