

# 3 CHLORIDE METER CL-10Z

Solid Membrane Type, Chloride Electrode Method



### Outline

Chloride Ion Electrode whose sensitive Membrane is made of solid silver Chloride measures Density of free Chloride Ion in the Water Solution. Residual Chlorine as disinfectant Index is out of measuring range. It is widely used in the Field of Water quality control of Chemical Plant, Food plant, Boiler Water, River, Water Supply/Sewage, Septic tank effluent, etc.

### Automatic Thermostat Type Chloride Ion Electrode.

### High Sensitive Chloride Ion Electrode

Chloride Ion Electrode capable of measuring wide range from low density to high density.

Possible to measure 0.1~1999mg/ℓ linearly.

Concrete Liquid Junction



temperature element  
chloride ion sensitive Membrane

### mV Mode

mV Mode makes it possible to measure generation of Electrode and to show Electrode is good or not.

### Measuring Mode Shifts Automatically

1mg/ℓ at measuring range 100~2000mg/ℓ  
0.1mg/ℓ at measuring range less than 99.9mg/ℓ

### Mini Information

**Can Chlorine be measured with this Chloride Ion Electrode?**  
Chloride Ion is the Chloride dissolved in Water. Residual Chlorine is the oxidizing disinfectant like Sodium Hypochlorite. Therefore Residual Chlorine can not be measured by Chloride Ion Electrode.

Chloride Ion is expressed as Cl<sup>-</sup> which is not disinfectant, and differs from Residual Chlorine.

For Instance, Salt is Sodium Chloride(NaCl), it separates to Sodium Ion (Na<sup>+</sup>) and Chloride Ion(Cl<sup>-</sup>) when dissolved in Water. Chloride Ion is the important Water Quality Item in the various field of Food, Culture, Septic Tank, Rivers etc. as Index of Salt Density.

### Specifications

#### Meter

Product Name/Model	Chloride Ion Meter : CL-10Z
Measuring Method	Silver Solid Film Ion Electrode Method
Measuring Range	Cl <sup>-</sup> : 0 ~ 2000mg/ℓ (Cl <sup>-</sup> : Density of Chloride Ion) mV : -1000~1000mV(Chloride Ion Electrode Power)
Resolution	Cl <sup>-</sup> : 0.1mg/ℓ (0.0~99.9mg/ℓ) 1mg/ℓ (100~2000mg/ℓ) mV : 1mV
Repeatability	Cl <sup>-</sup> : within ± 2mg/L (0.0 ~ 99.9mg/ℓ) within ± 5mg (100 ~ 2000mg/ℓ) mV : within ± 2mV
Display	LCD digital Cl <sup>-</sup> /mV : LCD 4 digits (upper side) Memory : LCD 2 digits
Data Memory	Max. 10 data
Power Supply	DCA5V(LR6) battery×3 Auto Power off System (30min.)
Outer Dimensions	70(W)×170(D)×30(H)mm
Weight	Approx. 290g

#### Chloride ion electrode

Product Name/Model	Chloride Ion Electrode : CL-2206
Measuring Method	Silver Solid Membrane Ion Electrode Method
Cable Length	1m Standard
Outer Dimensions & Weight	φ18.5×124mm Approx. 120g
Selectivity	Non-Coexistence CN <sup>-</sup> I <sup>-</sup> = 10 <sup>-3</sup> Br <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> = 10 <sup>-2</sup> NO <sub>3</sub> <sup>-</sup> , SO <sub>3</sub> <sup>2-</sup> , CO <sub>3</sub> <sup>2-</sup> , PO <sub>4</sub> <sup>3-</sup> , F <sup>-</sup> = 10 <sup>-1</sup>

### Standard Components

Chloride Ion Meter, Alkaline battery : LR03×3(Already set in the Meter Body)  
Chloride Ion Electrode : CL-2206  
Chloride Ion std. Solution 10mg/ℓ : 50mℓ, Chloride Ion std. Solution 1000mg/ℓ : 50mℓ,  
Electrode Inner liquid(0.35mol K<sub>2</sub>SO<sub>4</sub>) : 50mℓ,  
Ion Strength Adjustment Buffer(working : ISAB) : 50mℓ,  
Beaker : 50mℓ, Pipette(long, short), Carrying Case