

Cl<sup>-</sup>

# CHLORIDE ION METER

# CL-11Z

(Range : 0~2000mg/ℓ)

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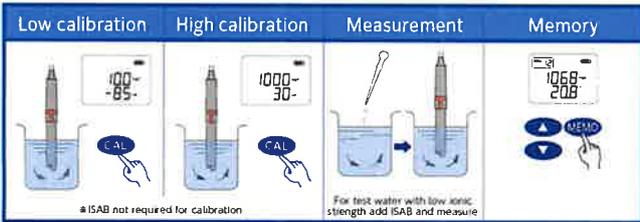
ISAB not required for calibration, Newly developed long-life electrode.



Hg Free

### ◆ Specifications

Model	CL-11Z (Not compatible with CL-10Z)
Range	Cl <sup>-</sup> : 0~2000mg/ℓ mV : 0~±1000mV (For electrode inspection) Temp : 0.0~50.0°C (Recommended Use 5~45°C)
Resolution	Cl <sup>-</sup> mode : 0.1mg/ℓ (0.1~99.9mg/ℓ) : 1mg/ℓ (100~2000mg/ℓ) mV mode : 1mV Temp : 0.1°C
Temp. compensation	Automatic by thermistor (20KΩ)
Repeatability	Cl <sup>-</sup> : Within ±2% Temp : Within ±0.5°C
Self diagnosis function	Disconnection : S ERR Calibration ERR : CAL ERR Battery shortage : Battery mark blinks
Memory function	Max 30 data
Power	DC4.5V (LR03 battery×3) Auto power off system (30 minutes)
Structure	Corresponding to IP67 (The detector be properly connected to the instrument.)
Outer dimension	Approx 70(W)×173(D)×40(H)mm



### ◆ Standard Components

Main body (CL-11Z), Chloride ion electrode (CLD-11)  
 10mg/ℓ Standard solution Cl<sup>-</sup> : CLSLN-10-50 (50mℓ)  
 1000mg/ℓ Standard solution Cl<sup>-</sup> : CLSLN-1000-50 (50mℓ)  
 Inner liquid for CLD-11 : CLDLQ-30 (30mℓ)  
 (\*Not compatible with CL-10Z)  
 Ion strength adjustment buffer (ISAB) : 50mℓ  
 Pipette, sand paper, Vinyl cover, carrying case

Cl<sup>-</sup>

# SALT-METER

# CL-203N

(Range : 0~1.000% Cl<sup>-</sup>)

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Salinity Measurement of Fresh Concrete



### ◆ Specifications

Product name	Salinity meter for fresh concrete
Model	CL-203N
Measuring range	Salinity : 0.001~1.000% Cl <sup>-</sup> (10~10000mg/ℓ) Chloride content : 0.001~1.999kg/m <sup>3</sup> (Cl <sup>-</sup> ) Water temp : 0.0~50.0°C
Resolution	Salinity concentration : 0.001% (Cl <sup>-</sup> )
Accuracy	Salinity : Within ±10%
water content setting	120~220 kg/m <sup>3</sup>
Memory function	Max 30 data
Calibration	LOW calibration : 0.1% (Cl <sup>-</sup> ) soln. HIGH calibration : 0.5% (Cl <sup>-</sup> ) soln.
Power source	DC 4.5V (Alkali battery LR 03×3) Auto Power off System
Self diagnosis function	Self check function, CAL ERR, S ERR, etc.
Dimensions / Weight	Approx 70(W)×173(D)×40(H)mm / 290g

### ◆ Detector

Model	CLD-203
Principle	Chloride ion selective electrode
Cable length	1m
Sample temp	0~45°C
Wetted parts material	PP, PVC, AgCl, Ceramics
Dimensions / Weight	Approx φ17×192mm / 130g
Selectivity	S <sup>2-</sup> ..... cannot coexist. CN <sup>-</sup> , I <sup>-</sup> ..... 10 <sup>-5</sup> Br <sup>-</sup> , S <sub>2</sub> O <sub>3</sub> <sup>2-</sup> ..... 10 <sup>-2</sup> NO <sub>3</sub> <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , CO <sub>3</sub> <sup>2-</sup> , PO <sub>4</sub> <sup>3-</sup> , F <sup>-</sup> ..... 10 <sup>3</sup>

### ◆ Features

#### ◆ Salinity concentration & Chloride content

Salinity concentration: 0.001~1.000% Cl<sup>-</sup>  
 Chloride content: 0.001~1.999kg/m<sup>3</sup> Cl<sup>-</sup>

#### ◆ Newly developed long-life electrode

Hg free, A new type of chloride ion electrode

#### ◆ Measured value memory function

Max. 30 data

#### ◆ Measurements values hold function

Function to temporarily hold measured values



kg/m<sup>3</sup> (W)  
 Upper: Chloride content  
 Lower: water content



Standard component Meter, Electrode, Std. soln. (0.1%, 0.5% each 250mℓ)  
 Stabilization solution 250mℓ  
 Inner solution 100 mℓ, Carrying case