



F-10Z



Outline

Fluoride Ion Electrode measures Density of Free Fluoride Ion in Water Solution using single Crystal of Lanthanum Fluoride (LaF_3) Membrane as sensitive Membrane.

Total Fluoride Density such as Complex of Fluoride compound can not be measured.

This Meter is used in the Process of Semiconductor manufacturing Plant, Glass manufacturing Fluoride Resin manufacturing Plant, and also in the Field of Water Quality Control of Plant effluent and Water Supply System, etc.

Characteristic

Fluoride Ion Electrode With Automatic Thermostat System

Semiconductor Temperature Element automatically controls difference by Temperature Change.

Highly Sensitive Fluoride Ion Electrode FE-1206

Possible to measure wide range from low to high Density. Possible to measure 0.1~1999mg/ℓ linearly.

mV Mode

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

Measuring Mode Shifts Automatically

Minimum display of $1 \text{mg}/\ell$ at measuring Range $100 \sim 2000 \text{mg}/\ell$ Minimum display of $0.1 \text{mg}/\ell$ at less Than $99.9 \text{mg}/\ell$

Water-Proofed (IP67)

Pb Free Circuit Borad

With Back Light

With Memory Function

Preparation⇒	Calibration⇒	Measurement
Prepare 50m g. of standard solution 2mg/ g. 8,20mg /g respectively. Add the ISAB previously. 50ne 50ne 200mg /g 200mg /	Make calibration by putting the electrode into each standard solution. 2.0 LOW Calibration 2mg/8 2mg/8 200mg/8	Add ISAB I'mg I'mto the sample liquid 50mg, and after stirring, it set the electrode. After about 1–2minutes, read display. I'm I m I m I m I m I m I m I m I m I m

Specifications

Meter

Meter		
Product Name/Model	Fluoride Ion Meter : F-10Z	
Measuring Method	Ion Electrode Method(Lanthanum Fluoride Membrane)	
Measuring Range	F-: 0~2000mg/\ell(F-: Density of Chloride Ion)	
	mV:-1000~1000mV(Chloride Ion Electrode Power)	
Resolution	$F^-: 0.1 mg/\ell \text{ (at } 0.0 \sim 99.9 mg/\ell \text{)}$	
	$1 \mathrm{mg}/\ell$ (at $100 \sim 2000 \mathrm{mg}/\ell$)	
	mV:1mV	
Repeatability	F ⁻ : within $\pm 2 \text{mg} / \ell (0.0 \sim 99.9 \text{mg} / \ell)$	
	within $\pm 5 \text{mg}/\ell (100 \sim 2000 \text{mg}/\ell)$	
	mV: within ±2mV	
Display	LCD digital	
	F ⁻ /mV : LCD 4digits (upper site)	
	Memory: LCD 2digits	
Data Memory	Max. 30data	
Power Supply	DC4.5V(LR03 battery×3) Auto power off system (30min.)	
Outer Dimensions	70(W)×170(D)×36(H)mm	
Weight	Approx. 290g	

Fluoride Ion electrode

Product Name/Model	Fluoride Ion Electrode : FE-1206
Measuring Method	Ion Electrode Method(Lanthanum Fluoride Membrane)
Cable length	1m standard
Outer dimensions & Weight	φ18×155mm Approx. 120g
Selectivity	Non-coexistence
	OH-=101
	HPO_4^2 -, HCO_3 - = 10^3 (pH7~8)
	Cℓ¬,Br¬,I¬,NO₃¬,SO₄²¬,S₂O₃²¬=10⁵

Standard Components

Fluoride Ion Meter, Alkaline Battery : LR03 \times 3(Already set in the Meter Body) Fluoride Ion Electrode : FE-1206

Fluoride Ion std. Solution $2mg/\ell$: $50m\ell$, Fluoride Ion std. Solution $200mg/\ell$: $50m\ell$, Electrode inner Liquid(0.35mol K_2SO_4): $50m\ell$,

Ion Strength Adjustment Buffer(masking: ISAB): 50mℓ.

Beaker: 50mℓ, Pipette(long), Syringe for inner Liquid, Carrying Case