

# SSM-14P

## SURFACE SALINITY METER



***Easy checking the surface salinity condition before painting on steel structure such as ship & etc.***

Steel structure requires surface preparation before painting.

SALINITY CHECK during surface preparation is one of the most important methods to judge if painting is applicable.

With SSM-14P, you can measure salinity on the surface of steel-made bridges, ships, huge tanks SIMPLY AND DIRECTLY IN REAL-TIME.

The introduction of this device will improve reliability of cleanliness check before painting and work efficiency, as well.

# SSM-14P SURFACE SALINITY METER

**Surface salinity concentration on steel structure is directly and quickly measurable.**

## FEATURES

- ◆ Concentration of surface salinity ( $\text{mg}/\text{m}^2$ ) can be directly read without converting calculation.
- ◆ ATC (auto temp. compens.) always indicates the converted value at 25°C.
- ◆ Field use is available due to dry cell power source.
- ◆ Sampling is not required. Easy operation  
Easy operation to inject pure water through disposable syringe after fixing measuring cell onto the measuring object is only required to measure salinity concentration on the surface. No longer required such conventional time-consuming sample collection work that salinity is washed off from the surface before bringing it to measuring site.  
\* In the bottom of measuring cell, magnet is installed to fix onto the surface of measuring object. Therefore, flat surface of magnetic metal is desirable object for measurement.
- ◆ Main unit and measuring cell are handy and lightweight, thus it is easy to carry them.
- ◆ Optional printer unit or recorder output unit is connectable.

## Specifications

### Main Unit

Indicating Method	LCD Digital Display
Indicating Items	Salinity concentration, Temp. Cell constant setting value, various message display
Measuring Method	Electric Conductivity Method
Using pure water volume	7 ml
Measuring Range (Resolution)	Salinity Concentration: 0 to 199.9 $\text{mg}/\text{m}^2$ (0.1 $\text{mg}/\text{m}^2$ ) 0 to 1,999 $\text{mg}/\text{m}^2$ (1 $\text{mg}/\text{m}^2$ ) (Auto range)
Repeatability of meter	Salinity conc. : $\pm 2\%$ F.S.
Accuracy of Temperature	0 to 50°C : $\pm 0.5^\circ\text{C}$
Temp Compensation	ATC : 0 to 50°C Reference Temp. : 25°C
Temp Coefficient	2%/°C Fixed
Measuring Sample Temp	0 to 50°C
Data Storage	25 data
Power Source	9V DC (6F22 $\times$ 1Pt.)
Ambient Temperature	0 to 40°C
External Dimensions	Approx. 207(H) $\times$ 70(W) $\times$ 41(D)mm
Weight	Approx. 380g (incl. dry cell)

### Measuring Cell

Type	SSE-202
Material of conductivity cell	316-SUS
Cell Constant	J=100 $\pm$ 20% ( $\text{m}^{-1}$ )
Required liquid volume	7 ml
Stirring function	By direct motor drive stirring
Power source for stirring	Dry cell 9V DC (6F22 $\times$ 1)
Weight	Approx. 630g (incl. dry cell)

### Standard Accessories

Measuring Cell	SSE-202
Others	Dry Cell (6F22 $\times$ 2) Syringe with tube 1 Pce. Instruction manual 1 Copy

## Measuring method & Procedure

### Method

Inject certain volume of pure water into measuring cell which is fixed onto measuring object (steel). Measure conductivity variation when salinity on the surface is dissolved into pure water. It is automatically converted into concentration of salinity.

### Procedure

- ① Fix measuring cell onto measuring object.
- ② Inject pure water by disposable syringe.
- ③ Press cell stirring switch (about 10 sec. or more)
- ④ Read the value after indication becomes stable.

## Name of Each Part



## Notice

1. Please read instruction manual to correctly use this meter.
2. The contents of this brochure are subject to change without prior notice.