

# EMC

## 28 EMC-502 Electro-Magnetic Density Monitor

Capable of density measurement of every kind of chemical solution such as acid, alkali, salt, etc.



Flow measurement holder  
MS-11FH



Immersive type  
MS-11H



Standard type  
MS-11



### Features

- Electro-magnetic density sensor is used  
No polarization, so not influenced by dirt or SS
- Density measurement of high density salt without dilution  
Electric non-contact type, measurement of high density chemical solution

### Acid surface treatment process

Sulfuric acid, hydrochloric acid, nitric acid, etc.

### Alkaline surface treatment process

NaOH, KOH, sodium carbonate, etc.

### Salt control of sea water and food stuff

Cultivation farm, salt water treatment food staff process, etc.

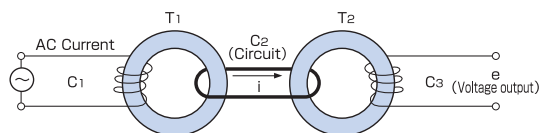
### Density control of various kinds of chemical solution

Density control of various kinds of plating solution, surface treated water.

### Measuring Theory

This electro-magnetic density detector is equipped with the toroidal coil and the pre-amplifier in the chemical-proofed PVC case. If you immerse this detector into conductive water solution, induced current flows in proportion to density/conductivity of the solution.

This electro-magnetic density detector can give you continuous measurement of sample density without being influenced by dirt, color, and SS of the sample solution.



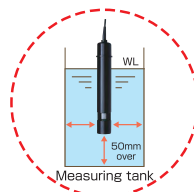
### Meter

Product name	Electro-Magnetic density Meter
Model	EMC-502
Display	LED red 3-1/2 digit
Measuring objects	Please specify the object (NaCl, KCl, NaCO <sub>3</sub> , HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , etc...)
Measuring Range	Please specify the Measuring Range, Measuring Unit (0~500mS/cm, 0~25Wt/VOL%(NaCl), etc...)
Resolution	0.01% (Within 0~10%) 0.1% (Within 0~25%)
Accuracy	Within ±2% (Full Scale)
Transmittal Output	DC4~20mA (isolated type) 3 range
Alarm Point	Low and High, each a, b point of contact (no-voltage)
Hold output	Transmission output and point output by input of no voltage point signal from outside at maintenance time
Power Supply	AC85~240V free input 50/60Hz
Std. component	Meter, Detector, panel fixer.

### Detector

Product name	Electro-Magnetic density detector
Model	MS-11 (Standard Type) MS-11H (Immersive Type) MS-11FH (Flow Type)
Measurement condition	Temperature: Within 0~40°C ※No Coexistence (Bubble, Organic solvent)
Outer dimensions	φ40×257mm
Material	PVC(Black)
Cable	5m standard

### Detector Installing condition



### Relation between Liquid Density and Conductivity

