

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.

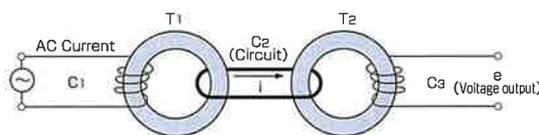
Density control of various kinds of chemical solution

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.



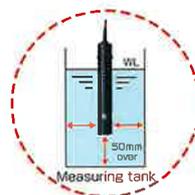
■ Meter

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 ₃ , HCl, HNO ₃ , H ₂ SO ₄ , 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

