

Measuring Copper Sulfate by Magnetic Flowmeter

Measuring the Copper Sulfate flow rate takes an important role in the copper and foil manufacturing process, used for printed circuit board, etc. In many cases, it can be found that the electromagnetic flowmeters are used to measure the flowrate of the Copper Sulphate. However, in this application there are two points which make the measurement using the electromagnetic flowmeter difficult.

- 1) **Grounding** --- Due to its use in an electrolytic facility
- 2) **Corrosion** --- Apt to occur due to the acid mist

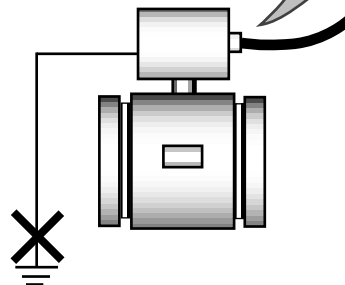


By using Yamatake MagneW 3000 PLUS,
above two problems can be solved as follows :

- 1) In the electrolytic cell you should not ground the electromagnetic flowmeter. When it is grounded, the current in the fluid leaks to the ground through the grounding ring, thus causing galvanic corrosion, etc. On the other hand, measuring using electromagnetic flowmeter without the grounding has a difficulty to get a stable signal. MagneW3000 PLUS has solved this problem, by increasing the amplifier's S/N ratio, without the grounding and an stabilized measurement result can be achieved (However, this is not recommended when the fluid conductivity is low).
- 2) MagneW3000 PLUS uses stainless steel material for the detector main body. As for the easy piping connection, we have added flanged type model in our product line. Thus this makes it possible to achieve a reliable sealing on even the plastic piping such as polyvinyl chloride (PVC). This prevents the leakage and offers high corrosion resistance.

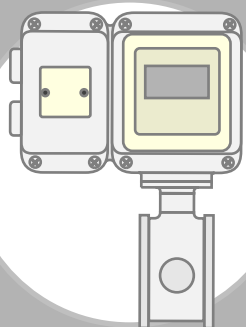
MagneW3000 PLUS can get the stabilized measurement without grounding.*

**Note) In principle, we recommend the use of grounding. Use it without grounding only when fluid conductivity is high or depending on application conditions.*



Customer A has already adopted more than 60 units of MagneW and are achieving a stabilized measurement. We strongly recommend you to use Yamatake MangepW3000 for your Copper Sulfate measurement.

The GENBA
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