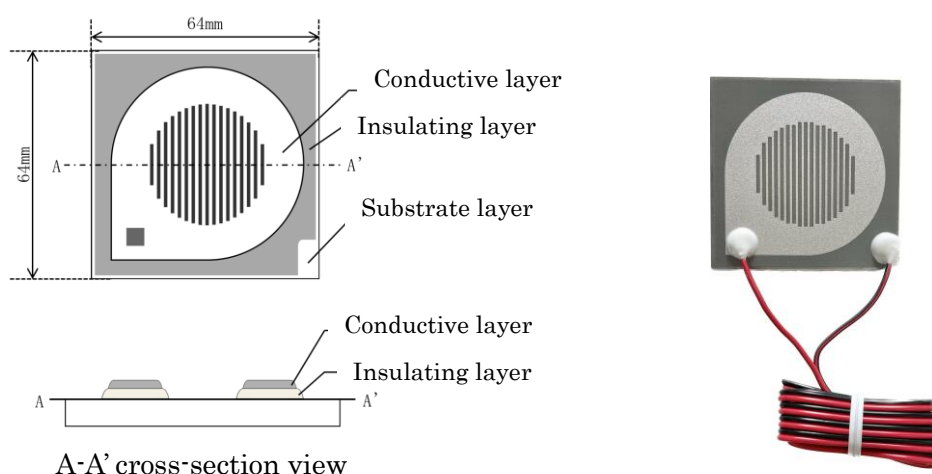


ACM Sensor(Standard Type) Specifications

【Overview】

ACM is a type of sensor which is used to evaluate corrosion in atmospheric and saline environments. When two different types of metals are exposed to the environment while insulated from each other, a corrosion current flows them in solution as well as in open air or indoors due to the linkage of water film between these two metals and it corresponds to the corrosion rate of base metal. By measuring and analyzing this corrosion current, the corrosiveness of the installation environment can be quantitatively evaluated. The type of sensor that can monitor the corrosive environment is called Atmospheric Corrosion Monitor or ACM Sensor.

【Structure/Appearance】



A-A' cross-section view

The insulation paste is printed, baked, and hardened on the substrate (Fe, Zn, etc.). The hardened insulation layer is then printed with conductive paste (such as Ag), baked, and allowed to firm. The resistance between the two electrodes is measured once the paste has dried. The plate is employed as sensors if resistance is more than $1\text{G}\Omega$.

【Specifications】

Materials	Carbon Steel, Galvanized Steel (without Z27 chemical conversion treatment), Materials supplied by Customers (Consultation Required), Stainless Steel, Aluminum Alloy, Magnesium Alloy, etc.,
Size	64mm×64mm (t=0.8mm) ※Custom-made is also available
Sensor Output	0.01nA~5mA
Lead Wire	Red & Black Cable 1m ※Length and Specifications can be customized.
Connection to Measuring Equipment	Waterproof Connector, etc., ※Custom-made is also available
Supported Devices	ACM Data Loggers: SACM-311E、SACM-312B、SACM-314B、SACM-318B、SACM-31FB、SACM-50F、SACM-311B etc.
Inter-electrode Resistance	$1\text{G}\Omega$ or higher