

# ATMOSPHERIC CORROSION SENSOR

## Atmospheric corrosion sensor

In this sensor, an ammeter is connected between a base plate of carbon steel and an Ag electrode, and the current which passes between the two electrodes is measured as the sensor output. Because the sensor output increases as environmental corrosiveness becomes more severe, it is possible to estimate and evaluate factors related to environmental corrosiveness (wetting condition, deposition rate, etc.) by analyzing the magnitude and change over time in the sensor output.

This sensor, which is being used to develop evaluation methods for environmental corrosiveness, centering on the Corrosion Group, is commercially available in products approved by the Corrosion Center of the Japan Society of Corrosion Engineering, and is widely used in a variety of fields.

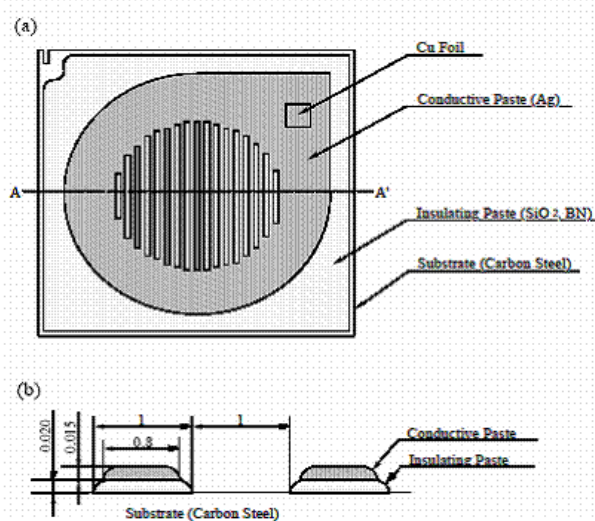
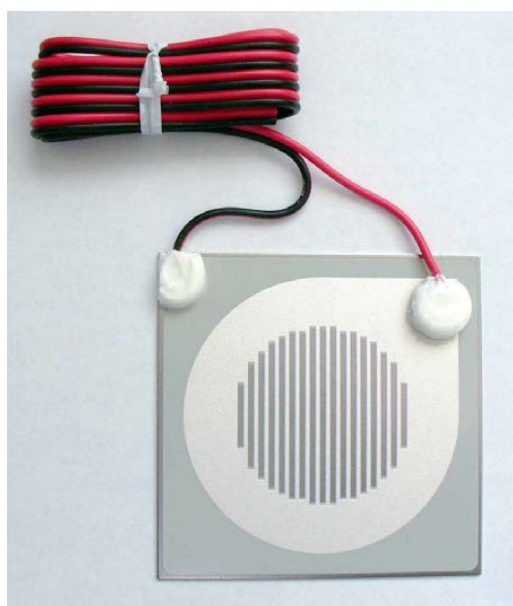


Fig.1 Schematic representation of the sensor.

## SPECIFICATIONS

<b>Substrate</b>	Fe
<b>Sensor output</b>	0.1nA~1mA
<b>Resolution</b>	0.1nA~10μA =0.1nA, 0.1nA · 1μA~ 1mA =1μA
<b>Sensor endurance</b>	2 month (when exposed to oceanic environment )
<b>Interelectrode resistance</b>	1GΩ or more
<b>Wire connection</b>	Red wire(cathode) to puls, Black wire(anode) to minus (ground, COM)
<b>Note</b>	Sensor output should be measured with zero shunt ammeter

DUE TO CONTINUOUS PRODUCT IMPROVEMENT, THE DESIGN AND TECHNICAL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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