

ER Sensor(Flat Type) Specifications

【Overview】

It is a corrosion sensor that measures the amount of metal corrosion thinning by using the electrical resistance value.

In order to compensate for changes in resistance due to temperature, the metal electrodes are arranged on the same side, and one side is covered with an anti-corrosion material. Since there is no step between the substrate and the metal pattern and the structure prevents water from accumulating, corrosion behavior can be measured without the influence of the end face, making it ideal for evaluating plated steel sheets.

【Structure and Appearance】



The above figure shows a standard size flat type sensor made of carbon steel. It is possible to change the metal material and electrode shape according to customers' request.

There is also a type with a thinner substrate for installation and measurement in close contact with curved surfaces.

【Specifications】

Materials	Carbon steel, Aluminum, etc. ※Supplied Materials from customers (Consultation Required)
Size	31mm(W) × 58mm(L) ※Custom-made is also available
Electrodes' Thickness	200 μm ※Custom-made is also available
Lead Wire	1m cable with Waterproof Connector ※Length and Specifications can be customized.
Connecting with Measuring Equipment	Waterproof Connector ※Custom-made is also available
Compatible Device	ER Data Loggers:SRCM-301、SRCM-301R