

# Rebar Corrosion Detector

Corrosion of steel bars in structural concrete reduces the effective section area. It enlarges the volume of steel bars, which leads to expansion, spalling of concrete, reduction of bonding force, and bearing capacity between steel bars and concrete, directly affecting the safety and durability of concrete structures. Therefore, detecting steel corrosion in concrete structures is an important part of the safety assessment and appraisal of existing buildings.



## Product features:

- © New upgrade, three-proof shell design, waterproof, dustproof, shockproof;
- © IWIN-XSY Rebar Corrosion Detector adopts the polarization electrode principle and measures the surface potential of concrete through the copper/copper sulfate reference electrode. It judges whether the steel is corroded and the degree of corrosion according to the potential size generated by the steel corrosion or the potential gradient formed.
- © Measure the surface potential of concrete to achieve the non-destructive testing of the corrosion degree of steel reinforcement in concrete;
- © Store the potential value at the corresponding position of each measurement area and display it graphically, transfer the data to the upper computer software, and operate on it.

## Technical parameters:

Potential electrode	Size: $\Phi 30\text{mm} \times 120\text{mm}$ Weight: 100g
Host parameter	Waterproof level: IP65 Screen size: 5 inches Volume: $195 \times 140 \times 45\text{mm}$ Weight: 0.8kg
Power supply	Built-in lithium battery
Potential measurement range	$\pm 1000\text{mV}$
Test accuracy	1mV
Measuring point spacing	1 to 2500px
Data storage capacity	5400 survey areas / 228,000 points data
Working temperature	$-10^\circ\text{C} \sim 40^\circ\text{C}$
Packing specification	Material: engineering plastic Volume: $420 \times 140 \times 335\text{mm}$ Weight: 5.5kg

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