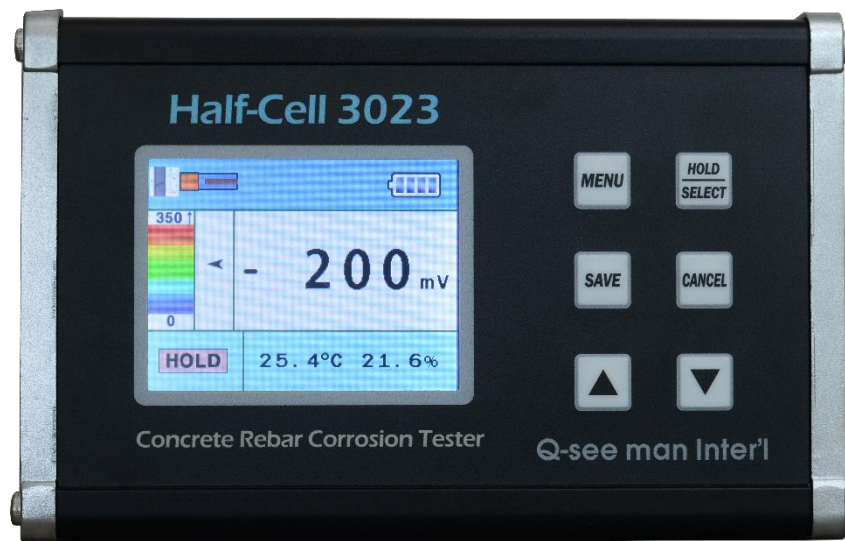


Potentiometric Rebar Corrosion Tester Half-Cell 3023

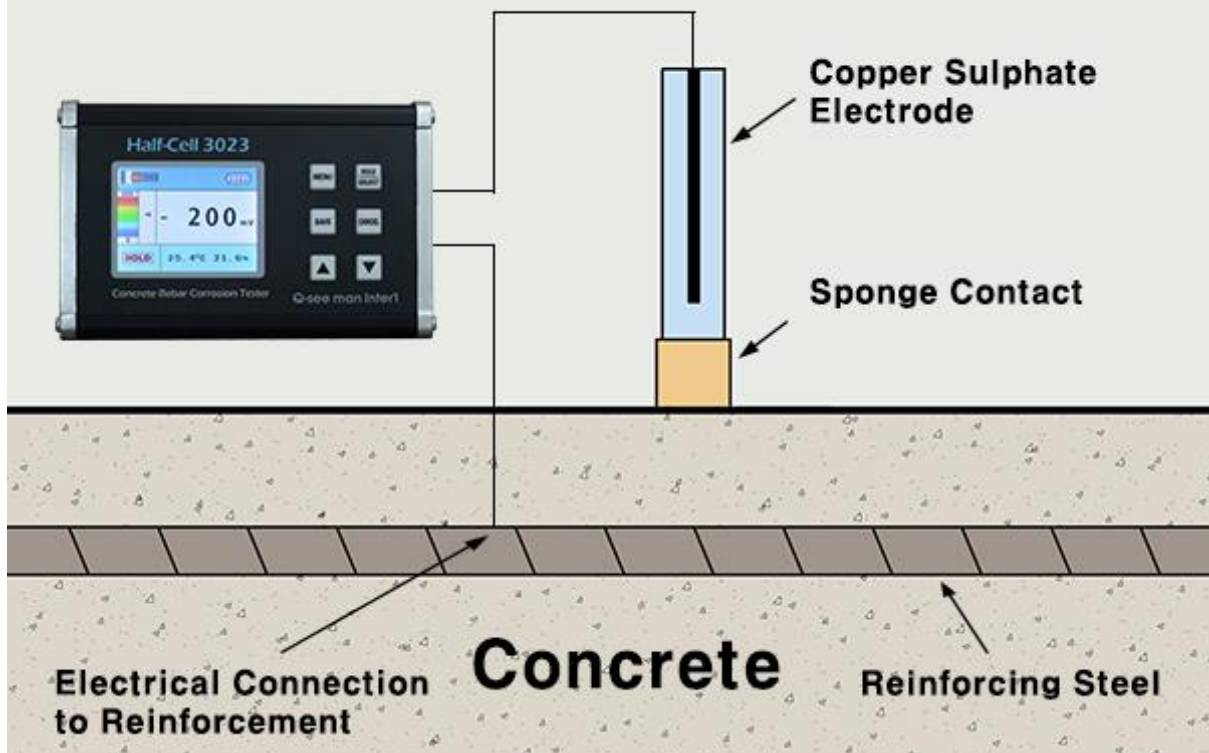


Rebar corrosion is a problem faced by many reinforced concrete structures. The rebar is protected by the alkali component of the concrete surrounding it. Over time, if the surface is oxidized or carbon or chloride penetrates, the alkali component in the concrete disappears and oxygen or moisture penetrates and the rebar begins to corrode. Corrosion of reinforcing bars weakens and cracks the concrete or causes a decrease in the cross-sectional area of rebars, so it is very important to find them at an early stage of corrosion. The Potentiometric Concrete Rebar Corrosion Tester Half-Cell 3023 displays the potential difference between rebar and concrete as a digital value to find the extent of corrosion and the degree of corrosion. This ensures that the entire structure remains safe and can be managed most efficiently. The half-cell inspection method can be used regardless of the diameter of reinforcing bars or the thickness of the concrete cover, and can be used at any time within the life of the concrete. Half-Cell 3023 is supplied with Half-Cell sensor, carrying case, 30m extension cable and aluminum case. MKC supplies the HC-2020 program CD with the equipment for contour mapping of measurement results or for creating reports.

Features of Half-Cell 3023

- Directly read the potential value digitally by touching the sensor to the surface of concrete
- Measurement Range: 0 to -2,000mV
- Analog Display
- Hold function to freeze the display
- Measured value storage and contour mapping function
- Battery saving circuit that automatically shuts off power after about 5 minutes of inactivity
- Rugged aluminum case and protective leather case
- Lithium-ion battery for over 300 hours of use
- Low Battery display function
- Conforms to ASTM C876

Half-Cell 3023 Measuring Principle



Kit composition of Half-Cell 3023



Half-Cell 3023 Body



Half-Cell Electrode (CSE)



Sponge



Extension Cable



Carrying Pouch



Copper Lactic Acid Powder



Software for Analysis



User's Guide



Portable Aluminum Bag

Specifications of Half-Cell 3023

- Measuring Principle: Potential Difference Measurement Method using Half-Cell Electrode(CSE)
- Measuring Range: 0 to -2,000 mV
- Display: 3.2 inch TFT 3 1/2 Row LCD Display
- Resolution: 1mV
- Display Stability: ± 1 mV
- Input Impedance: 100M Ω
- Auto Shut-Off: Auto Power Off after 5 Minutes of Inactivity
- Hold Function: Pause the Current Measurement Value
- Save Measurements: 5
- Contour Mapping: 2 x 2 ~ 10 x 10
- Display Function: Low Battery and Hold Status
- Power: Rechargeable Li-ion Battery
- Battery Life: Rechargeable Li-ion Battery for Over 300 Hours of Use
- Operating Temperature: -10°C ~ 50°C
- Size: 172 x 105 x 68mm
- Weight: 940g (body including battery)

* Specifications presented are subject to change without notice for product improvement.



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