

# Half-Cell 200<sup>®</sup> Concrete Rebar Corrosion Tester



Corrosion of reinforcing steel is encountered in variety of reinforced concrete structures.

Corrosion ultimately results in a reduction in the cross section of the reinforcement and spalling of the concrete. In well-cured concrete, the steel reinforcing bars are protected by the Alkaline composition of the surrounding concrete. As time passes, the Alkaline protection can be eroded either by carbonation or by chlorides. Once the Alkaline protection is removed, in the presence of oxygen and moisture, the steel is liable to corrode.

Consequently, it is important to detect corrosion at an early stage of its development. Furthermore, when repairing a reinforced concrete structure, it is important to locate and repair all areas of corroding reinforcement. Half-Cell potential technique is an established and reliable method of measuring and monitoring the condition of reinforcing steel in concrete.

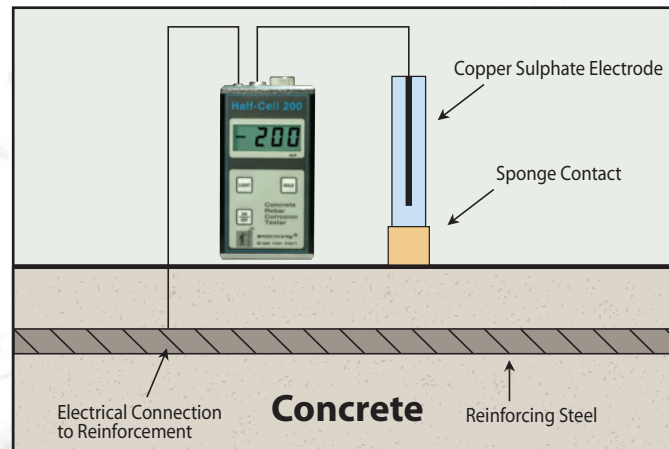
Half-Cell 200 is used to locate corroding reinforcement without disrupting the concrete cover to the reinforcing steel. Half-Cell 200 is supplied with copper sulphate electrode, carrying pouch, 30 meter length extension cable, aluminium bag and instruction manual.

## Features

- Direct reading of electrical activity by Copper Sulphate Electrode
- Measuring Range: - 2,000mV ~ +2,000mV
- Display Hold Function
- Automatic Power off to save battery
- Rugged aluminum case and carrying pouch
- 100 hours operation by 2 x Alkaline AA battery
- Low Battery status display
- Conforms to ASTM C876

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## Half-Cell 200 Electrical Circuit for Measuring Half-cell Potentials



## Half-Cell 200 Kit

- Half-Cell 200 main body
- Half-Cell Electrode(CSE)
- Sponge Insert
- Carrying Pouch
- 30m extension cable
- Aluminium bag
- Instruction manual

## Specifications of Half-Cell 200

- Measuring Method: Half-Cell potential method using Copper Sulphate Electrode
- Measuring Range: -2,000mV ~ +2,000mV
- Display: 3 1/2 digit LCD
- Resolution: 1mV
- Display Stability:  $\pm 1$ mV
- Input Impedance: 100M $\Omega$
- Automatic Shut-Off: After 5 minutes without use
- Hold Function: Hold the display
- Display Function: Low Battery and Hold status
- Power: 2 x AA Alkaline Battery
- Battery Life: About 100 hours
- Operating Temperature: -10 $^{\circ}$ C ~ 50 $^{\circ}$ C
- Size: 115x63x33mm
- Weight: 330 grams (main body including battery)
- Warranty: One year



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