ACM Instruments

SOLnCOR Concrete Meter

FEATURES

- **Portable**
- **Battery and Mains**
- **DC Corrosion Rate**
- **AC Concrete Resistance**
- **LCD Screen**
- **Simple Operation**

APPLICATIONS

- **Surveys**
- **Insurance Reports**
- **Concrete Walls**
- **Hot Spot Identification**
- **Formulation**

DESCRIPTION

A portable instrument for potentiostatic determination of solution resistance and corrosion rate of rebar in concrete.

The meter incorporates a LCD screen showing current, switchable between two ranges 200 microAmps and 2 mA. A sealed lead acid battery allows for easy on site use and a built in charger keeps the unit simple and neat. Two modes of operation allows for determination of solution resistance (AC) and polarisation resistance (DC).
DC Operation: Select Range and switch to DC. This turns on the instrument and starts the test. The LCD display is blank for 19 seconds during this first stage. The rest potential is first measured and the internal potentiostat set to this value. Then an anodic polarisation of 20 mV is applied to the cell. After 19 seconds is up the LCD display shows the anodic current, this is displayed for a further 19 seconds and the cycle then repeats.
AC Operation: Select range and switch to AC. this turns on the instrument and starts the test. The rest potential is first measured and the internal potentiostat is set to this value. Then a sine wave of amplitude 13 mV RMS at 1940 Hz is applied to the cell. After 19 seconds the LCD display shows the RMS current, this is displayed for a further 19 seconds and the cycle then repeats.

A compact and lightweight instrument for on site investigation of concrete integrity.

Case type: Portable plastic case.

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