

# Resitest<sup>®</sup>-400 Concrete Resistivity Tester



The corrosion of steel in concrete is an electro-chemical process which creates a current flow causing metal to dissolve so that it is possible to assess the probability of reinforcement corrosion by evaluating the electrical resistance of the concrete. The factor is measured in terms of resistivity and expressed in Ohm.

The resistivity of concrete varies over a complete structure due to a variety of changing site conditions from day to day so that other methods, like half-cell potential or impact testing, should be combined to ensure the data. Generally, the probability of the steel corrosion increases, the concrete resistivity decreases.

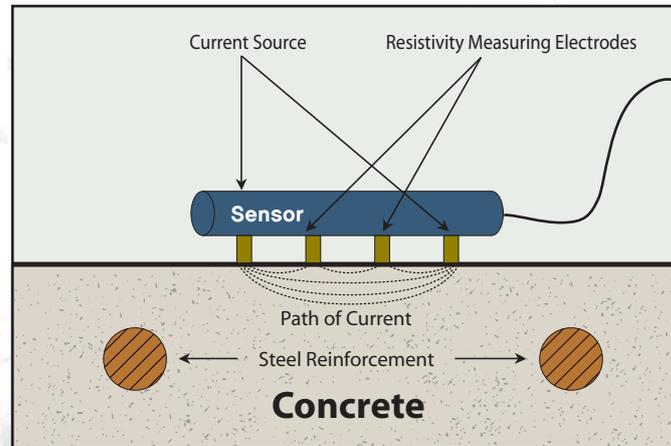
One of the practical problem of concrete resistivity testing is to ensure the good electrical contact between the electrodes and concrete surface. In Resitest-400, Sponge insert type sensor is used for good electrical contact. Resitest-400 is supplied with Wenner sensor, carrying pouch, reference block, connection cable, AC adaptor, sensor cleaning bottle, insert sponge, aluminium bag and instruction manual.

## Features

- No breaking out or drilling of concrete required, as it is a surface test
- Simple and accurate testing by sponge insert type sensor
- A reference block ensures the reliability of test result
- Display hold function
- Automatic power off to save battery
- 4 hours operation by rechargeable batteries
- Low battery status display
- Rugged aluminum case & carrying pouch
- Easy to carry in a rugged aluminium bag

# Resitest<sup>®</sup>-400 Concrete Resistivity Tester

## Resitest-400 Electrical circuit for measuring concrete resistivity



## Resitest-400 Kit

- Resitest-400 main body
- Wenner sensor
- Insert sponge (8 pcs)
- Connection cable
- Reference Block
- Sensor cleaning Bottle
- Carrying pouch
- AC adaptor for rechargeable battery
- Aluminium carrying bag
- Instruction manual

## Specifications of Resitest-400

- Measuring Method: Concrete resistivity testing by Wenner array sensor (50mm spacing)
- Measuring Range: 0 ~ 2,000 k $\Omega$
- Display: 3 1/2 digit LCD
- Resolution: 1 k $\Omega$
- Display Stability:  $\pm 1$  k $\Omega$
- Input impedance: 100 M $\Omega$
- Automatic Shut-Off: After 5 minutes without use
- Hold Function: Hold the display
- Display Function: Low Battery and Hold status
- Power: 12V (1.5V x 6 rechargeable batteries)
- Battery Life: About 5 hours
- Operating Temperature: -10 $^{\circ}$ C~50 $^{\circ}$ C
- Size: 163x89x41mm
- Weight: 750 grams (main body including battery)
- Warranty: one year



큐씨맨인터내셔널<sup>®</sup>  
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Address: #601, KICOX Venture Center, 188-5, Guro-dong, Guro-gu, Seoul, Korea  
TEL: 82-2-804-3600, 3636 FAX: 82-2-893-0498  
Web: www.qseeman.com E-mail: contester@qseeman.com