

RESIPOD CONCRETE RESISTIVITY METER



For Concrete Testing

Resipod Concrete Resistivity Meter is a fully integrated 4-point Wenner probe, designed to measure the electrical resistivity of concrete in a completely nondestructive test. It is the most accurate instrument available, extremely fast and stable and packaged in a robust, waterproof housing.

The Resipod concrete surface resistivity meter provides information about the state of concrete structure. It is used for the estimation of the likelihood of corrosion and the corrosion rate.

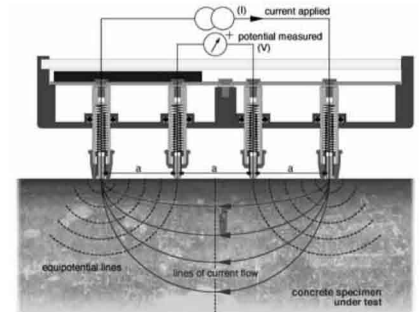


Application :

- Estimation of the likelihood of corrosion.
- Indication of corrosion rate.
- Correlation to chloride permeability.
- On site assessment of curing efficiency.
- Determination of zonal requirements for cathodic protection systems.
- Identification of wet and dry areas in concrete structure.
- Indication of variations in the water/cement ratios within a concrete structure.
- Identification of area within a structure most susceptible to chloride penetration.
- Correlation to water permeability of rock.

Operating Principle :

Operating on the principle of the Wenner probe, the resipod is designed to measure the electrical resistivity of concrete or rock. A current is applied to the two outer probes, and the potential difference is measured between the two inner probes. The current is carried by ions in the pore liquid. The calculated resistivity depends on the spacing of the probes.



Resistivity $\rho = 2\pi aV/I$ [k Ω cm]

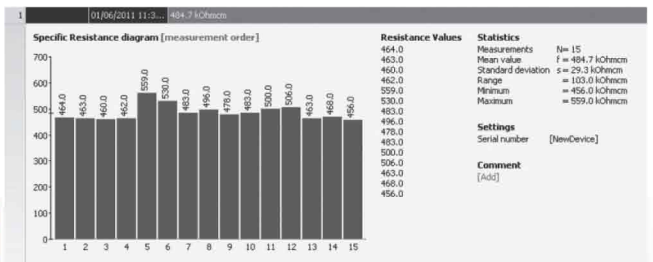
Features :

- Fully integrated surface resistivity instrument.
- Wide measuring range (0 to ca. 1000 k Ω CM).
- Fast and accurate delivery of measuring results.
- Highest resolution available for a surface resistivity instrument.
- Current flow indication and poor contact indication.
- Hold, save and delete function, with onboard memory.
- USB connection and dedicated PC software.
- Designed to float (waterproof according to IPX7).
- Allows variable probe spacing to be set.
- Allows replacement of standard tips with accessories.

Features :

Range	0 - ca. 100k Ω cm (depending on probe spacing)
Resolution (Nominal current 200 μ A)	± 0.2 k Ω cm or $\pm 1\%$ (whichever is greater)
Resolution (Nominal current 50 μ A)	± 0.3 k Ω cm or $\pm 2\%$ (whichever is greater)
Resolution (Nominal current <50 μ A)	± 0.2 k Ω cm or $\pm 5\%$ (whichever is greater)
Frequency	40 Hz
Memory	Non volatile, ca. 500 measured values
Power Supply	>50 hours autonomy
Charger Connection	USB type B, (5V, 100mA)
Dimensions	197 X 53 X 69.7 mm
Weight	318 g
Operating Temperature	0° to 50°C
Storage Temperature	10° to 70°C

Resipod Link Software :



Product Supply Includes : Resipod instrument, Foam contact pads, Carrying strap, Test strip, USB charger, Software, Carry case.

Item Code: ST-Resipod50