

Novascan C310A

Electrochemical analysis system for measuring potential and corrosion rate



The corrosion of the steel inside the concrete reduces the effective area of the steel bar section and leads to an increase in volume. This expansion involves a demolition of the concrete element, reducing the mechanical characteristics and durability of the material, and consequently the safety of the structures involved. **The detection of the degree of corrosion of the steel bars in the concrete elements** is, therefore, one of the fundamental parameters to be considered in identifying the state of degradation and in assessing the safety of the examined structure.

APPLICATIONS

The NOVASCAN C310A electrochemical analysis system for the measurement of corrosion potential and rate uses the theory of electrode polarization; is designed according to the electrochemical test method (natural potential method), in accordance with the requirements of the regulations on the assessment of structural integrity.

ADVANTAGES

- High detection accuracy: the corrosion voltage detection accuracy is +/- 0.1 mV;
- The test results are displayed in a hierarchical graphic: the degree of corrosion is shown in a hierarchical graphic, corresponding to the range of electrodes;
- Two working modes: single and double electrode.

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Range	n+/- 1000 mV
Accuracy	0.1 mV
Power supply	internal rechargeable lithium battery
Screen	n160mm x 128mm LCD
Storage capacity	234 punti
Electrode size	φ30 mm x 180 mm
Investigated area	234 m2
Dimensions	212 mm x 134 mm x 50 mm
Weight	0.9 kg

Accessories:

- Novascan C310A acquisition unit
- Probe with single electrode and clamp
- Probe with double electrode
- Container of copper sulphate
- Connection cables
- Professional software for analysis and reporting
- Battery charger
- USB device with instruction manual
- Pencil
- Certificate of conformity
- Rigid carrying case

