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Rapid Chloride Permeability of Concrete - New Model ZI 2064B

Standards: ASTM C1202-12, AASHTO T277-07,
ASTM C1760-12

Specification:

In concrete materials, the DC electrical resistance of concrete is correlated with important durability parameters of concrete such as chloride diffusion coefficient and the chloride migration coefficient that are used for the durability design or service life design of concrete structures.

This is a laboratory device for testing the durability of concrete exposed chloride-contaminated environment including:

- Concrete's ability to resist chloride ion penetration (ASTM C1202, AASHTO T277)
- Bulk electrical conductivity of concrete (ASTM C1760)
- Performance-based quality control of concrete
- Estimation of chloride diffusion coefficient of concrete
- Estimation of chloride migration coefficient of concrete

Features:

- Stand alone operation
- Easy-to-assemble
- Accurate (± 0.1 mA)
- Auto-seal cells with rubber gasket and spacer (i.e. does not require caulking)
- Flexible logging interval time (1 to 10 min)



- Automatic temperature control system
- Four measurement channels
- User-friendly PC software (optional)
- Customizable setup
- USB connection to computer (optional)
- Verification kit accessory (optional)

Technical Specifications:

| | |
|-----------------------------------|---------------------|
| • Type | Value |
| • Applied Voltage | 60 ± 0.1 V |
| • Range of current measurement | 0 ~ 500 mA ± 0.1 mA |
| • Temperature measurement range | 0 ~ 100°C |
| • Measurement channels | 4 |
| • Short circuit protection system | Yes |
| • Measurement display on LCD | Yes |
| • Remaining time display on LCD | Yes |
| • LCD display area | 65x33 mm |
| • Dimensions | 280x240x104 mm |
| • Weight | 2 Kg |