

# Corrosion Monitor for Concrete



## Corrosion Electrical Resistance (ER) Probe



Corrosion Electrical Resistance (ER) Probe is designed to measure the effectiveness of various corrosion control methods such as cathodic protection, corrosion inhibitor, coating or liner. The probe provides good sealing of the reference element and the check element provides confidence in the continued performance of the corrosion sensor.

### Corrosion Rate Measurement in Cathodic Protection

When the effectiveness of cathodic protection, ER probe needs to be electrically connected to structural rebar using the attached grounding lead.

### Corrosion Rate Measurement in Corrosion Inhibitor

ER probe should be unconnected from the structural rebar, so that the ER probe monitors the direct corrosivity of the concrete.

### Corrosion Rate Measurement in Coated/Sealer or High Dense Concrete

ER probe should be unconnected from the structural rebar, so that the ER probe monitors the direct corrosivity of the concrete.

### Specification

Element:	Mild steel (C1010)
Element Thickness:	20 mils (0.5 micron) and 50 mils(1.27 micron)
Cable:	Teflon FEP
Cable Length:	4.5 or 9 m



MUI-MS1500E meter is required for measurement. Hand-held, battery-powered MS1500E is capable of measuring and storing data from ER corrosion probes.