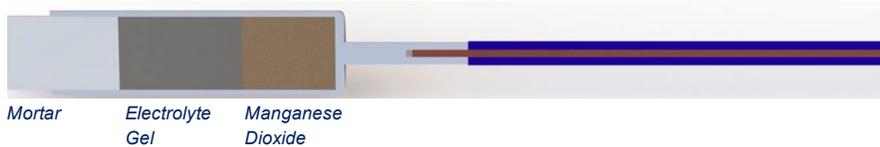


Description

The ElectroTechCP™ ERE 20 Reference Electrode is used for controlling correct operation and monitoring corrosion conditions for cathodic protection systems installed in reinforced concrete structures. The ERE 20 contains manganese dioxide in a very alkaline electrolyte gel. The reference electrode measures the potential difference between the electrolyte and the reinforcing steel. The manganese dioxide is placed in a stainless-steel capsule along with the electrolyte and is enclosed by an ion exchange membrane of cement mortar. The capsule is sealed with mastic and heat shrink tubing, insuring that the contents do not escape. In order to protect the membrane and keep it moisturized, a wetted sponge is placed inside the protective cap. The cap must be removed before installation.



The half-cell reaction can be measured through a data logger which enables remote surveillance of the system. Alternatively, a regular handheld voltmeter with a high input impedance can be used to perform the measurements. The electrode is suitable for monitoring cathodic protection following the EN 12696 standards.



Features and Benefits

- Due to the amount of cell electrolytes a long service life is assured
- May easily be embedded in new or old concrete structures as the installation can be performed gently
- Good affinity to the concrete due to the cement mortar membrane
- Remote surveillance possible through a modem
- Can sustain environments with levels of carbonization and may be exposed to chlorides as it is nearly independent of changes in the chemical properties of the concrete

Properties of The Reference Electrode

Nominal diameter of electrode with heat shrink tube	16.5 mm
Nominal length	64.5 mm without cable
Cable type	Copper wire consisting of 7 strands with XLPE insulation and PVC sheathing
Potential of a single electrode	Between + 150 and +200 mV* vs. SCE*
Internal resistance	Less than 500 Ohm after soaking in water

*At 25°C
 *Saturated calomel electrode

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