Ti MMO Electrode™ is a permanent embeddable pseudo-reference electrode for corrosion monitoring in reinforced concrete structures.

The electrode is Titanium activated with an Iridium Enriched Mixed Metal Oxide, cast in a specially developed pH-constant cementitious filler which guarantees long term stability of the electrochemical potential.

The probe and the filler are protected by a robust non-metallic case.

**ADVANTAGES**
- Stable potential
- No durability limits
- Rugged and mechanically resistant
- Electrical potential calibrated
**APPLICATION**
- Monitoring of rebar corrosion.
- Monitoring of stray current interference in concrete.
- Regulation and monitoring of cathodic protection systems.

**OPERATING**
Potential measured after half an hour soaking in saturated Ca(OH)$_2$ at 25°C: $-60 \pm 50$ mV Vs. SCE (Saturated Calomel Electrode).
Potential in concrete $+50 \pm 20$ mV Vs. SCE (average based on a statistical analysis of a 5 year testing of electrodes embedded in concrete blocks). The shift between above values is the junction potential which arises when the concrete is in contact with Ca(OH)$_2$ solution.
Temperature range: 0 to 50°C.
For potential measurements a high impedance voltmeters (> 1 GΩ) is required.

**CABLE**
Type FG7 1 x 2.5 mm (AWG 13).

**LIFE EXPECTANCY**
No limitation.