

ProSense™

PRODUCT DESCRIPTION

Zinc is sometimes used as a reference electrode, typically in stationary applications. The zinc reference electrode is manufactured using 99.999% high-purity zinc. As zinc is a pseudo-reference electrode, its potential may vary with changes in the surrounding environment. Therefore, zinc is not stable in carbonate-containing environments or at elevated temperatures.

For underground applications, the zinc electrode is supplied in a cloth bag containing the same type of backfill used for zinc anodes.

PRODUCT FEATURES

Mechanical Reliability

- Sturdy structure with high mechanical strength, designed to resist damage during installation and service.

Installation & Maintenance

- Simple installation, with convenient replacement and maintenance.

Custom Engineering Capability

- Product configurations can be customized to meet customer requirements.



ZINC REFERENCE ELECTRODE



PRODUCT PERFORMANCE

Electrical Performance

- Provides good electrical conductivity and low resistance in water environments.

Insulation Reliability

- Qualified electrical insulation performance helps ensure safe and reliable operation.

Corrosion Resistance & Service Life

- Strong corrosion resistance supports long-term service life under designed operating conditions.

Reference	Title
NACE RP0572	DESIGN, INSTALLATION, OPERATION, AND MAINTENANCE OF IMPRESSED CURRENT DEEP GROUNDBEDS
EN 13509:2003	CATHODIC PROTECTION MEASUREMENT TECHNIQUES

MODELS AND SPECIFICATIONS

Model	AT-ZRE-1	AT-ZRE-2	AT-ZRE-3
Type	Packaged	Disk	Probe
Size	Ø100 mm 300 mm length	Ø100 mm 300mm length	Ø100 mm 25 mm effective length
Enclosure Material	Cotton Bag with Backfill	Stainless Steel	Stainless Steel
Potential Stability	±15 mV at 0.3 mA	±15 mV at 0.3 mA	±15 mV at 0.3 mA
Water Tightness	-	2 MPa water pressure, ≥15 min	2 MPa water pressure, ≥15 min
Insulation	-	Resistance > 1MΩ	Resistance > 1MΩ
Lifespan	30 years	30 years	30 years
Recommended Environment	Soil, Fine Sand	Seawater, Fresh Water	Seawater, Fresh Water



PRODUCT PARAMETERS

Life
≥ 30 years

Environment Temperature
0–55 °C

Potential Stability
Potential Drift ≤±15 mV

Electrode Potential
-800 mV (25°C, vs, SHE)

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