

ProSense™

ZINC REFERENCE ELECTRODE

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 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.



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.

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Reference	Title
NACE RP0572	DESIGN, INSTALLATION, OPERATION, AND MAINTENANCE OF IMPRESSED CURRENT DEEP GROUND BEDS
EN 13509	CATHODIC PROTECTION MEASUREMENT TECHNIQUES
17-SAMSS-006	GALVANIC ANODES FOR CATHODIC PROTECTION
17-SAMSS-007	IMPRESSED CURRENT ANODES FOR CATHODIC PROTECTION
17-SAMSS-018	REMOTE MONITORING UNITS (RMUS) FOR CATHODIC PROTECTION APPLICATIONS

PRODUCT PARAMETERS

Life	≥30 years
Environment Temperature	0-55°C
Potential Stability	Potential Drift ≤ ±15mV
Electrode Potential	-800mV (25°C, vs, SHE)

MODELS AND SPECIFICATIONS

Model	AT-ZRE-1	AT-ZRE-2	AT-ZRE-3
Type	Packaged	Disk	Probe
Size	φ100mm 300mm Length	φ100mm 300mm Length	Φ19mm 25mm 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, ≥15min	2 MPa water pressure, ≥15min
Insulation	-	Resistance > 1MΩ	Resistance > 1MΩ
Lifespan	30 years	30 years	30 years
Recommended Environment	Soil, Fine Sand	Seawater, Fresh Water	Seawater, Fresh Water



For further information, please contact Advance Technology.



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