

ProSense™

SILVER/SILVER CHLORIDE REFERENCE ELECTRODE

PRODUCT DESCRIPTION

The silver/silver chloride (Ag/AgCl) reference electrode is used to measure the structure-to-environment potential of seawater-exposed and concrete structures. The internal electrode assembly includes silver powder/silver, silver nitrate, hydrochloric acid, and silver chloride. Two configurations are available: one in which the silver electrode is directly exposed to seawater, and another in which the electrode is immersed in a potassium chloride (KCl) solution within a cylinder fitted with a porous plug. Portable Ag/AgCl reference electrodes are designed for temporary structure-to-environment potential measurements, while stationary Ag/AgCl reference electrodes are designed for long-term potential monitoring.

PRODUCT PERFORMANCE

Potential Stability

- Stable electrode potential supports accurate and reliable cathodic protection potential measurements during long-term operation.

Anti-Interference Performance

- Excellent resistance to electrical and environmental interference helps ensure stable measurements under complex operating conditions.

Corrosion Resistance

- Strong corrosion resistance supports reliable performance in aggressive marine and submerged environments.



PRODUCT FEATURES

Installation & Reliability

- Compact, lightweight design allows easy installation and supports reliable field operation.

Custom Engineering Capability

- Product configuration and specifications can be customized to meet customer and project requirements.

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ELECTRODE

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

PRODUCT PARAMETERS

Life	Environment Temperature	Potential Stability	Reference Potential
≥20 years	0-55°C	Potential Drift ≤ ±10 mV	+256 mV (25°C, vs, SHE)

MODELS AND SPECIFICATIONS

Model	AT-SSC-1	AT-SSC-2	AT-SSC3	AT-SSC4
Type	Portable	Cylinder	Disc	Probe
Size	Φ25mm 150mm Length	Φ100mm 300mm Length	Φ140mm	Φ19mm 75mm Effective Length
Enclosure Material	High Impact Strength ABS	High Impact Strength ABS	Stainless Steel	Stainless Steel
Potential Stability	±5 mV at 0.3 mA	±5 mV at 0.3 mA	±5 mV at 0.3 mA	±5 mV at 0.3 mA
Water Tightness	-	-	2MPa water pressure, ≥15min	2MPa water pressure, ≥15min
Insulation	-	-	Resistance > 1MΩ	Resistance > 1MΩ
Life	-	-	20 years	20 years
Recommended Environment	Seawater	Concrete	Seawater	Seawater



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