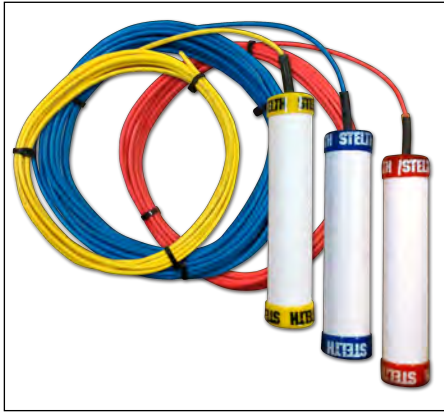


BORIN® STELTH® 2

Reference Cells

Stationary Reference Electrodes for Underground and Concrete Service



Features:

- The Stelth® 2 reference electrode features 32 in² of sensing surface area. This makes electrode positioning less critical to achieve accurate readings.
- Will not dry out in desert soil, a condition that renders other electrodes ineffective. Cyclical variations in soil conditions, ranging from hydrated to dehydrated have no adverse effects on the Stelth® 2 reference electrode.
- Minimum 30-year service life.
- Indefinite shelf life, indefinite stability.
- Available in three chemistries and color-coded for quick and easy identification: Cu-CuSO₄ (yellow), Ag-AgCl (blue), and Zn-ZnSO₄ (red).
- Each BORIN® Stelth® 2 Solid-State reference electrode is individually tested, certified, and has a unique serial number, allowing for traceability of any single cell throughout its lifetime.

- Technologically-advanced "ion trap" prevents contamination of internal electrolytes.
- **Note:** The Stelth® 2 Cu-CuSO₄ and zinc-zinc sulfate reference electrodes are stable up to levels of up to 1,000 parts per million chloride plus bromide. The BORIN Stelth® 2 silver-silver chloride reference cells are optimized for a chloride level of 19,000 parts per million (seawater) but can be used in environments with lesser or greater chloride levels, but with reduced life.

Size: 1.5" (38.1 mm) width x 7" (178 mm) length.

Standard Lead Wire: 20' (15 m) of #14 (2.5 mm²) RHH-RHW wire (any length of wire available).

Material: Ceramic with moisture retention membrane.

pH Range: 4–9 pH.

Working Temperature Range: 32° F to +176° F (0° C to 80° C).

Material Temperature Range: -60° F to +185° F (-51° C to 85° C).

Long Term Stability Range:

±10 millivolts with 10 megaohm load.

Certified Potential Range:

±5 millivolts with 10 megaohm load.

Maximum Continuous Current: 0.3 microamps.



Stelth2 Model SRE-007-CUY
Copper-Copper Sulphate (Cu- CuSO₄)
for Underground and
Concrete Service.

Stock Code: 813-81525



Stelth Model SRE-008-SUB
Silver-Silver Chloride (Ag-AgCl)
for High Chloride Underground and
Concrete Service.

Stock Code: 813-81551



Stelth Model SRE-009-ZUR
Zinc-Zinc Sulphate (Zn-ZnSO₄)
For Underground and Concrete
Service.

Stock Code: 813-81511

*The Stelth 2 will not be destroyed by absolute dry soil conditions, it will only lie dormant until moisture returns.

*Electric Mud™ backfill will keep the Stelth in a moisture environment which keeps it continuously active.

All written data and statements herein are provided in good faith and believed to be reliable and appropriate at the time of drafting this document. However it is given without implied or express guarantee. Potential uses are urged to trial and /or conduct conformity test of the product to deem its suitable in application for a particular end use prior to purchase.

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BORIN STELTH 2

Reference Cells

Borin is the largest manufacturer of reference electrodes in the world.

Borin Manufacturing has continued to lead the industry in remote monitoring and control equipment with Comanche and Comanche Elite installations from Australia to Scandinavia.

Model	Stock Code	Model Number	Style and Conditions for Use	Chemistry
"Stelth"	813-81524	SRE-002-CFY	Stationary - Fresh or Potable Water Service	Cu-CuSO4
"Stelth"	813-81553	SRE-004-SFB	Stationary - Salt or Brackish Water Service	Ag-AgCl
"Stelth"		SRE-006-ZFR	Stationary - Fresh or Potable Water Service	Zn-ZnSO4
"Stelth 2"	813-81525	SRE-007-CUY	Stationary - Direct Burial Chloride Free Conditions	Cu-CuSO4
"Stelth 2"	813-81551	SRE-008-SUB	Stationary - Underground Chloride Contamination Present	Ag-AgCl
"Stelth 2"	813-81511	SRE-009-ZUR	Stationary - Direct Burial Chloride Free Conditions	Zn-ZnSO4
"Stelth 3"	813-81528	SRE-010-CPY	Permanent Portable: Ground Surface & Water Chloride Free Conditions	Cu-CuSO4
"Stelth 3"	813-81529	SRE-011-SPB	Permanent Portable: Ground Surface, sea & Brackish Water Conditions	Ag-AgCl
"Stelth 3"		SRE-012-ZPR	Permanent Portable: Ground Surface & Water Chloride Free Conditions	Zn-ZnSO4
"Stelth 4"	813-81523	SRE-013-CPY	Permanent Portable: Ground Surface & Water Chloride Free Conditions	Cu-CuSO4
"Stelth 4"	813-81522	SRE-014-SPB	Permanent Portable: Ground Surface, Sea & Brackish Water Conditions	Ag-AgCl
"Stelth 4"		SRE-015-ZPR	Permanent Portable: Ground Surface & Water Chloride Free Conditions	Zn-ZnSO4
"Stelth 6"	813-81527	SRE-019-CCY	Stationary Concrete: Direct Burial in Concrete Chloride Free conditions	Cu-CuSO4
"Stelth 6"	813-81552	SRE-020-SCB	Stationary Concrete: Direct Burial in Concrete Chloride Contaminated	Ag-AgCl
"Stelth 6"		SRE-021-ZCR	Stationary Concrete: Direct Burial in Concrete Chloride Free conditions	Zn-ZnSO4
"Stelth 7"	813-81521	SRE-022-CIY	Stationary IR Free 1 cm2 with "Bullet Box" IR Free Interrupter Direct Burial Chloride Free Conditions	Cu-CuSO4
"Stelth 7"		SRE-023-CIY	Stationary IR Free 10 cm2 with "Bullet Box" IR Free Interrupter Direct Burial Chloride Free Conditions	Ag-AgCl
"Stelth 7"		SRE-024-CIY	Stationary IR Free 100 cm2 with "Bullet Box" IR Free Interrupter Direct Burial Chloride Free Conditions	Zn-ZnSO4
"Stelth 7"		SRE-031-CSY	Stationary IR Free 100 cm2 with "Bullet Box" IR Free Interrupter Tank Insertion - Chloride Free Conditions	Cu-CuSO4
Rocket				
"Stelth 7"		SRE-032-SSB	Stationary IR Free 100 cm2 with "Bullet Box" IR Free Interrupter Tank Insertion - Chloride Contamination Present	Ag-AgCl
Rocket				
"Stelth 7"		SRE-033-ZSR	Stationary IR Free 100 cm2 with "Bullet Box" IR Free Interrupter Tank Insertion - Chloride Free Conditions	Zn-ZnSO4
Rocket				
"Stelth 8"		SRE-034-CTY	Thru-Hull - Fluid Service Chloride Free Conditions	Cu-CuSO4
"Stelth 8"	813-81554	SRE-035-STB	Thru-Hull - Fluid Service Chloride Contamination Present	Ag-AgCl
"Stelth 8"		SRE-036-ZTR	Thru-Hull - Fluid Service Chloride Free Conditions	Zn-ZnSO4
"Stelth 9"		SRE-037-CSY	Deep Water - Fresh or Potable Water Environment	Cu-CuSO4
"Stelth 9"		SRE-038-SSB	Deep Water - Sea or Brackish Water Environment	Ag-AgCl
"Stelth 9"		SRE-039-ZSR	Deep Water - Fresh or Potable Water Environment	Zn-ZnSO4

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