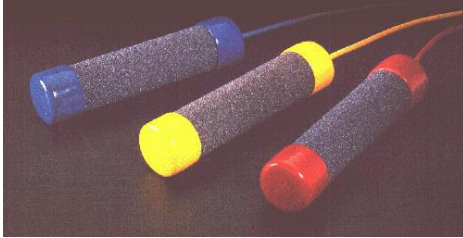


Borin Stelth 2

Stationary Reference Electrodes for Underground and Concrete Service



Features:

Minimum 20 year service life. 8 square inches of sensing surface area gives you 5-8 times more surface area than other electrodes. This makes electrode positioning less critical to achieve accurate readings. Will not dry out in desert dry soil, a condition that renders other electrodes ineffective. Cyclical variations in soil conditions, ranging from hydrated to dehydrated, have no adverse effect on the Stelth2 electrode.

Electrodes may be taken out of service for extended periods of time and reintroduced into the system without affecting electrode accuracy or ability to reactivate. (Electrode will fire up in under 5 minutes.)

First We impregnate a trapping material into the ceramic sensing tube that traps chloride ions before they reach the chemistry of the "Stelth 2" (patent pending).

Second We employ a chloride ion trapping system that removes chloride ions that penetrate the CuSO₄ chemistry of the "Stelth 2" before these ions can cause damage. Both of these systems have given us an additional benefit of lowering the internal resistance of the "Stelth 2" reference electrode.

Note Chlorides at levels of only 200 parts per million alter the chemistry of a Cu-CuSO₄ reference electrode enough to cause a complete breakdown, resulting in loss of stability and finally a total shutdown.

Stelth2 Model SRE-007-CUY

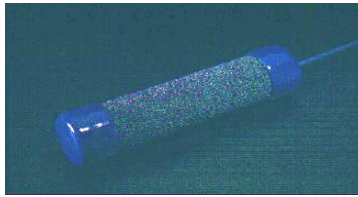
Copper-Copper Sulfate (Cu-CuSO₄) for Underground and Concrete Service.



Size:
1.5 (3.81cm) diameter x 6" (15.24cm) long
"space age" ceramic tube with yellow protective caps.
Lead Wire:
50' (15.24cm) of #14 RHH-RHW yellow wire.
Stability:
+/- 10 millivolts with 3.0 microamps load.
Temperature Range:
+32 to +135 F (0 to +57.2 C)

Stelth Model SRE-008-SUB

Silver-Silver Chloride (Ag-AgCl) for High Chloride Underground and Concrete Service.



Size:
1.5 (3.81cm) diameter x 6" (15.24cm) long
"space age" ceramic tube with blue protective caps.
Lead Wire:
50' (15.24cm) of #14 RHH-RHW blue wire.
Stability:
+/- 10 millivolts with 3.0 microamps load.
Temperature Range:
+32 to +150 F (0 to +65.6 C)

Stelth Model SRE-009-ZUR

Zinc-Zinc Sulfate (Zn-ZnSO₄) for Underground and Concrete Service.



Size:
1.5 (3.81cm) diameter x 6" (15.24cm) long
"space age" ceramic tube with red protective caps.
Lead Wire:
50' (15.24cm) of #14 RHH-RHW red wire.
Stability:
+/- 10 millivolts with 3.0 microamps load.
Temperature Range:
+32 to +135 F (0 to +57.2 C)

The Stelth2 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.

Vic/Tas/SA 03 9993 7500	NSW 02 9663 2322	NZ 09 414 5080	QLD/NT 07 3890 8533	WA 08 9248 8999
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Reference Electrodes

Borin

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	Model Number	Style and Conditions for Use	Chemistry
"Stelth"	SRE-002-CFY	Stationary - Fresh or Potable Water Service	Cu-CuSO4
"Stelth"	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"	SRE-007-CUY	Stationary - Direct Burial Chloride Free Conditions	Cu-CuSO4
"Stelth 2"	SRE-008-SUB	Stationary - Underground Chloride Contamination Present	Ag-AgCl
"Stelth 2"	SRE-009-ZUR	Stationary - Direct Burial Chloride Free Conditions	Zn-ZnSO4
"Stelth 3"	SRE-010-CPY	Permanent Portable: Ground Surface & Water Chloride Free Conditions	Cu-CuSO4
"Stelth 3"	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"	SRE-013-CPY	Permanent Portable: Ground Surface & Water Chloride Free Conditions	Cu-CuSO4
"Stelth 4"	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"	SRE-019-CCY	Stationary Concrete: Direct Burial in Concrete Chloride Free conditions	Cu-CuSO4
"Stelth 6"	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"	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" Rocket	SRE-031-CSY	Stationary IR Free 100 cm2 with "Bullet Box" IR Free Interrupter Tank Insertion - Chloride Free Conditions	Cu-CuSO4
"Stelth 7" Rocket	SRE-032-SSB	Stationary IR Free 100 cm2 with "Bullet Box" IR Free Interrupter Tank Insertion - Chloride Contamination Present	Ag-AgCl
"Stelth 7" Rocket	SRE-033-ZSR	Stationary IR Free 100 cm2 with "Bullet Box" IR Free Interrupter Tank Insertion - Chloride Free Conditions	Zn-ZnSO4
"Stelth 8"	SRE-034-CTY	Thru-Hull - Fluid Service Chloride Free Conditions	Cu-CuSO4
"Stelth 8"	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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