

Reference Electrodes



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

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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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.

Stelth 6 Borin

Stationary Reference Electrodes
for "Concrete Specific" Applications



Features:
Minimum 20 Year service life.

The **Surface Sensing Area** of the **Stelth™** reference cells has been increased up to 28 times over other reference cells on the market. This has dramatically improved the sensitivity of the **Stelth™** electrodes over similar devices. This combined with the new "**Moisture Retention Membrane**" **MRM™** keeps the **Stelth™** cells working until the circuit is shut down, due to lack of moisture. Also, this makes positioning less critical to achieve accurate readings.

NEW! "Moisture Retention Membrane" The **MRM™** is impregnated into the ceramic sensing tube and allows moisture to enter freely into the **Stelth 6™** but will not allow it to freely exit the **Stelth 6™ (patent - pending)**. All cells are pre-charged and sealed with distilled water prior to shipment which gives you an instant reading at the time of installation.

NEW! Now two levels of chloride ion trapping technologies are used in the **Stelth™** cells for Cu-CuSO₄ and Zn-ZnSO₄.

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

Second We employ a chloride ion trapping system that removes chloride ions that penetrate the CuSO₄ chemistry of the **Stelth™** cells before these ions can cause damage.

Both of these systems plus the **MRM™** have given you an additional benefit of lowering the internal resistance of the **Stelth™** electrodes.

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.

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