

## Stationary Underground Reference Electrodes

*High Surface Area Porous Ceramic Electrode*

Copper – Zinc – Silver



### **Electrodes & Cables Are Color Coded for Quick Identification.**

**YELLOW** -- CerAnode Model CS-Cu-2  
Copper-Copper Sulfate ( $\text{Cu-CuSO}_4$ ) for freshwater soils

**BLUE** -- CerAnode Model CS-AG-2  
Silver-Silver Chloride ( $\text{Ag-AgCl}$ ) for saltwater soils

**RED** -- CerAnode Model CS-ZN-2  
Zinc-Zinc Sulfate ( $\text{Zn-ZnSO}_4$ ) for freshwater soils

See back of sheet for Bagged Options



### **Features**

- **HIGH SENSITIVITY.** The electrode's large 28 in<sup>2</sup> (182 cm<sup>2</sup>) square inch earth contact surface area classifies the PCE as a high sensitivity electrode, many times more sensitive than conventional electrodes. The cell will maintain earth contact long after others produce no output. With inherently low cell resistance, readings are achieved faster and with greater accuracy.
- **BROAD MOISTURE RANGE.** Ideally suited for environments with wide moisture variations. Variations in soil moisture from arid to moist do not affect electrode life. The electrode will not degenerate in arid soils during dry seasons. It reactivates when moisture returns to the soil.
- **MOISTURE RETENTION TECHNOLOGY.** Internal interface technology enhances moisture retention for more stable readings.
- **UNLIMITED SHELF LIFE.** Dry solid state technology allows the electrode to be stored indefinitely. Activation or reactivation takes place following hydration.
- **LONG SERVICE LIFE.** Service design life is 30 years unless contaminated.
- **CHLORIDE ION TRAP.**  $\text{Cu/CuSO}_4$  &  $\text{Zn-ZnSO}_4$  ion trap equipped for service of <200 ppm Cl). Use  $\text{Ag-AgCl}$  for >200ppm.

### **Specifications**

Size:	1.5" (3.8 cm) Diameter 6" (15.2cm) Long
Weight:	Approx. 2lbs (1kg)-no bag Approx. 4lbs (1.8kg)-2" bag Approx. 5lbs (2.3kg)-3" bag Approx. 14lbs (6.3kg)-6" bag
Configuration	Ceramic Body with color coded protective caps
Lead Wire:	50' of #14 RHH-RHW or HMWPE or specify.
Stability:	±5 millivolts with 3.0 $\mu$ amp load.
Operating Temperature:	32° to 135° F (0° to 57.2° C)

# CerAnode Technologies International

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