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## TYPE CCS1 PORTABLE or PERMANENT SEAWATER REFERENCE ELECTRODE



Silver/Silver Chloride elements in all SILVION electrodes are manufactured using an advanced technique which results in a porous silver matrix being formed around a silver wire skeleton. The matrix is then coated with precise quantities of Silver/Chloride to ensure:

- 1). HIGH STABILITY
- 2). GREATER ACCURACY
- 3). INCREASED LIFE PERFORMANCE.

**NOTE:**

The Silver/silver chloride element in this Reference Electrode is directly exposed to the Seawater; hence these reference electrodes are not suitable for use in any other medium.



**OUTER CASING**

MATERIAL .....	ACETAL
LENGTH .....	110mm
DIAMETER .....	22mm

**SILVER CHLORIDE ELEMENT**

LENGTH .....	50mm
SECTION .....	5mm x 5mm
GEOMETRIC SURFACE AREA .....	10cm <sup>2</sup>
REAL SURFACE AREA .....	500cm <sup>2</sup>
MATERIALS .....	SILVER COMPOUNDS ARE 99.90% PURE

**PERFORMANCE DATA**

SHORT CIRCUIT CURRENT (<1 MIN) .....	20 mA
STABILITY (POTENTIAL DRIFT AT CONSTANT TEMP AND ENVIRONMENT) .....	+/- 1mV (24 Hrs) @ 5 micro Amp load
ACCURACY ( Vs SCE IN 3% NaCl @ 20°C) .....	-5mV +/- 5mV
TEMPERATURE COEFFICIENT.....	-0.65mV/Deg C
LIFE FOR USE IN SEAWAER	
PERMANENT INSTALLATION .....	30 YEARS (THEORETICAL)
PORTABLE .....	3 YEARS
TEMP RANGE .....	-5 to 80°C
SHELF LIFE .....	Infinite if stored correctly

**QA/QC**

All our electrodes are fully tested, calibrated and supplied complete with a calibration certificate. They are individually identified with a unique number to ensure full traceability.  
 All dimensions +/-1mm unless otherwise stated

*The information provided in this document was accurate at the time it was published, however, we reserve the right to revise this document without prior warning*

### SILVION REFERENCE ELECTRODES

*25 Years Service to the Corrosion Prevention Industry*

Registered in England No: 6860239

VAT No 975 9426 61