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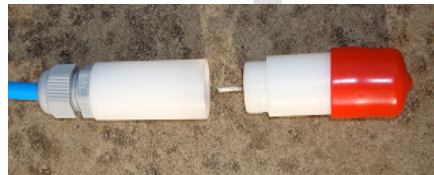
TYPE WE100M EMBEDDABLE REFERENCE ELECTRODE FOR USE IN CONCRETE



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.

Our embeddable electrodes have an inert electrolyte with a pre-determined chloride ion concentration around the Ag/AgCl. Ionic continuity to the environment is via a micro-porous sintered disc. The WE100M body has been designed as two separate housings which couple together via male and female threads. The WE100M is supplied with the Ag/AgCl element section of the body completely sealed leaving the silver wire protruding so the client may supply and connect their own cable tail. Electrodes can be supplied with either a compression gland or cable strain relief gland to accept up to a 1x6mm² XLPE/PVC cable



OUTER CASING

MATERIAL	ACETAL
LENGTH	110mm
DIAMETER	22mm
CERAMIC DISC DIAMETER	20mm

SILVER CHLORIDE ELEMENT

LENGTH	50mm
DIAMETER	5 x 5mm
GEOMETRIC SURFACE AREA	10cm ²
REAL SURFACE AREA	500cm ²
MATERIALS	SILVER COMPOUNDS ARE 99.90% PURE

ELECTROLYTE INERT SOLID ELECTROLYTE 0.5MOLAR KCl

PERFORMANCE DATA

SHORT CIRCUIT CURRENT (<1 MIN)	20mA
STABILITY (POTENTIAL DRIFT AT CONSTANT TEMP AND ENVIRONMENT)	+/- 1mV (24Hrs) @ 5micro Amp load
ACCURACY (Vs SCE in 3% NaCl @ 20DegC) .	-5mV +/- 5mV
TEMPERATURE COEFFICIENT.....	-0.65mV/Deg C
LIFE IN CONCRETE	30 YEARS (THEORETICAL)
	25 YEARS (REALISED)
TEMP RANGE	-5 to 80DegC
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

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