



t h e e y e w i t h i n ...

T E C H N I C A L D A T A S H E E T

Electrode Type: Silver/Silver Chloride/Potassium Chloride (gel): bagged

Description

The CP40 is manufactured as a robust reference electrode (half-cell) ideal for burial in soils and sand. Suitable intimate contact with the environment should be ensured by packing soil or sand around the pre-bagged electrode prior to backfilling.

The cells are pre-bagged with a gypsum/bentonite mix in muslin making them suitable for burial.

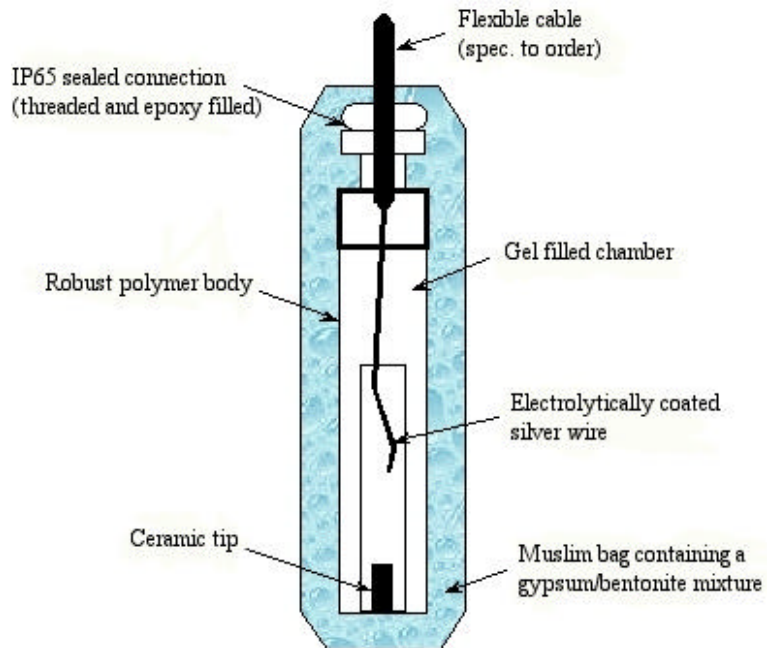
Silver/Silver Chloride/Potassium Chloride cells are true reference electrodes for use for the detection of corrosion and steel protection in underground environments.

The only known interference ion is the ammonium ion (NH_4^+).

This will not be significant unless a high ionic concentration is anticipated. Natural concentrations pose no problem.

The cell will allow monitoring of corrosion potentials and cathodic protection criteria.

Compatibility with all known data-logging equipment and remote sensing is guaranteed. If extraordinarily long cable lengths are required then the user is advised to specify the type of screening for cables and contemplate the use of buffer amplification of signals.



C-PROBE: UNDERGROUND BURIABLE ELECTRODE: CP40

Dimensions

The CP40 is cylindrical of the dimensions 15mm dia. x 50mm in body length.



CP40 reference electrode c/w cable and muslin bag ready for shipping.

Any low diameter cable can be fitted at manufacture (guidance can be given on request).

Calibration

Each electrode is tested individually in a fixed high resistance and certified to an accuracy better than $\pm 3\text{mV}$ against a standard calomel electrode (SCE). The life expectancy is certified as at least 20 years, provided the product is handled correctly prior to and during installation.

Note: In all applications a welded or drilled/tapped steel connection must be provided. This connection together with the electrode termination complete the measurement cell.