

CU10 Permanent Cu/CuSO₄ Reference Electrode

APPLICATION

The Refine™ CU10 reference electrode is used for underground buried structures, typically pipes, vessels and tanks. The electrode uses a porous ceramic pot to act as an ionic barrier designed to ensure long life, accuracy and stability over decades of service. The Refine™ CU10 reference electrodes are designed for use in wet and dry soil areas and come pre-packaged in wetting backfill.



Permanent Cu/CuSO₄ Reference Electrode

MATERIAL SPECIFICATION

Electrode element	High conductivity copper to HD HC C101 specification
Electrode media	Specially formulated Cu/SO ₄ matrix
Body	Formulated high temperature fired ceramics

PERFORMANCE DETAILS

Operating life	Minimum 25 years if handled & installed to manufacturer's specifications
Shelf life	Indefinite when following manufacturer's recommendations
Stability	+ or – 5mV at 5µA
Temperature range	0 - 75°C (32 - 167°F)

DIMENSIONAL DATA

Electrode Dimensions (Bare)	150 mm x 300 mm
Electrode Dimensions (Packaged)	200 mm x 410 mm
Nominal weight	25 kgs (Pre-Packaged)

CABLE TAILS

Standard specification	15m of 1 x 10mm ² XLPE/PVC Red Cable or to customers specification
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QA/QC DETAILS

Traceability	Fully traceable calibration certificate provided
Tested Vs SCE	+50 to +70mV vs saturated calomel electrode tested in distilled water