

CU3 – Permanent Cu/CuSO₄ Reference Electrode

APPLICATION

The Refine™ CU3 'Side Sensor' is the most advanced permanent cell available on the market today and the result of over 70 years of experience and many thousands of hours of research and development. The unique side reading body, ion trap and element are designed to give market leading accuracy, stability and performance levels. These cells are ideal for direct installation into soil or sand and will provide superb performance without using backfill materials.



CU3 Permanent Cu/CuSO₄ Reference Electrode for Multiple Applications

MATERIAL SPECIFICATION

Electrode element	High conductivity copper to HD HC C101 specification
Electrode media	Specially formulated CuSO ₄ matrix
Body	Formulated high temperature fired ceramic

PERFORMANCE DETAILS

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

DIMENSIONAL DATA

Electrode body diameter	36mm (1.4")
Electrode body length	200mm (7.9")
Nominal weight	180 to 200 grams (6.35 to 7.1oz)

CABLE TAILS

Standard specification	1 x 4mm ² (12 AWG) XLPE/PVC stranded copper conductor 25m long with green insulation. Custom cable offer to meet clients specification
You specify	Cable tail fitted to your requirements

QA/QC DETAILS

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