

MEASURING EQUIPMENT
Portable reference electrodes

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German Cathodic Protection



Portable reference electrodes

Portable reference electrodes are used to carry out potential measurements on all types of buried and submerged structures. The reference electrodes are made of solid copper elements which are housed in impact resistant plastic tubes.

To ensure that the copper elements remain electrically stable, copper sulfate crystals are provided with each ordered reference electrodes. The crystals surround the copper elements in the plastic tube, and when mixed with distilled water, create a super saturated solution of copper sulfate to reduce ion intermixing. A window on each cell allows the operator to observe the water level of the crystallized solution. If the level is insufficient, water and copper sulfate crystals can be simply added by removing the filling cap found on each creference electrodes.



Reference Electrode Cu/CuSO₄ for use in soil
Model: CUS-01

Dimensions

Diameter: 110 mm	Height: 110 mm	Weight: 1.0 kg
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Reference Electrode Cu/CuSO₄ for use in soil and (with submersible adapter) for use in water
Model: MILLER RE-5

Dimensions

Diameter: 35 mm	Height: 152 mm	Weight: 0.15 kg
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Reference Electrode Kit Ag/AgCl
Model: RE-7AG

Dimensions of case:

270 x 180 x 85 mm (W x D x H)	Weight: 1.1 kg
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Used on land with Lexan tube, CPT ceramic plug and KCL filling solution.

Used in sea water with perforated Lexan tube, brass submersible weights (any number of weights can be attached; two included in this kit) and standard 2.5 m submersible adapter (available in additional lengths).



Accessories:

Electrode extension 760 mm long.

Submersible adapter converts electrode for use in water.

With different lead length:

(2.5 m, 7.5 m, 15 m, 30 m, or 60 m) with copper test clip attached.

Water-tight connection.