

# Model UR - Underground Reference

## Typical Applications

- Underground storage tanks, buried pipelines, structures below concrete flooring

## Featuring

- Industry standard 15 year design life
- Proprietary backfill mix to retain moisture and minimize migration of contaminants from the surrounding soil
- 50 feet of #14 AWG HMW/PE lead wire is standard; other lengths available.



## Housing Specifications

Size - 7 inch dia. x 16 inch long  
(18 cm x 40 cm long)  
Shipping weight - 25 lb (12 kg)

## Element Specifications

Design life - 15 years  
Shelf life - 1 year minimum  
Stability -  $\pm 5$  mV

## Element Types

AGG - saturated gelled Ag/AgCl  
CUG - saturated gelled Cu/CuSO<sub>4</sub>

## Terminations

SW - 50 feet (15 m) of #14 AWG HMW/PE  
LWnnn - nnn feet #14 AWG HMW/PE  
CWnnn - nnn feet of custom wire  
(#12 HMWPE is the largest size wire that can be used in this model)

## Model Designation

Specify as EDI Model UR-xxx-yy  
xxx = Element type  
yy = Termination type

## Design Compatibility:

The **Model UR** is designed for permanent installation to obtain accurate potential measurements on buried structures. It is the best choice for those applications where easy installation is possible such as an open hole or trench. For a longer service life, the EDI Model UL or Model UL50 reference is recommended. A Cu/CuSO<sub>4</sub> element should be used in low chloride soils (<500 ppm) while a Ag/AgCl element is recommended for high chloride soil (>500 ppm) in order to obtain the longest possible life.

## electrochemical devices, inc.

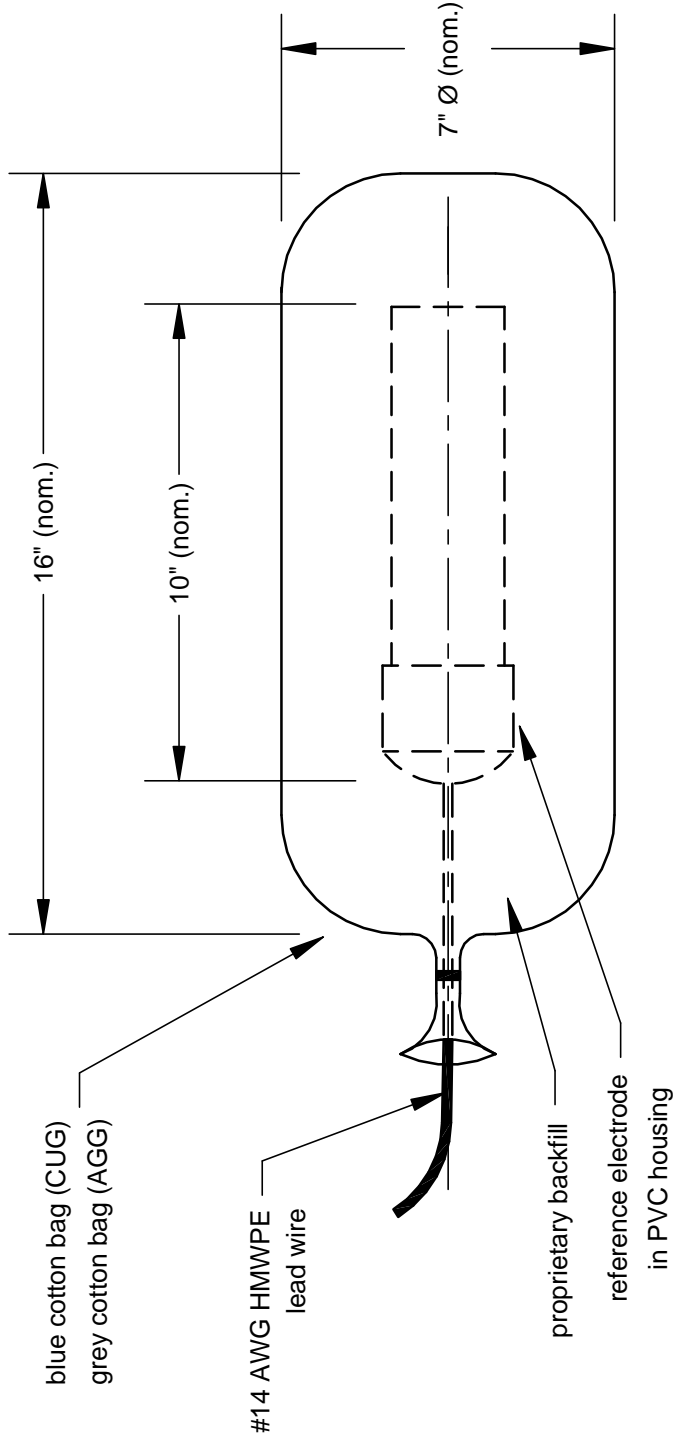
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*U Series*  
*Underground*  
*Reference*  
*Electrodes*



## Model UR - 15 year (nom.) design life

Specify as EDI Model UR-xxx-yy  
where xxx is element type and yy is termination type



### Element Types

AGG = Ag/AgCl (saturated, gelled)  
CUG = Cu/CuSO<sub>4</sub> (saturated, gelled)

### Termination Types

SW = 50' #14 AWG HMWPE lead wire  
LWnnn = nnn' #14 AWG HMWPE lead wire

### Installation

Remove bagged element from shipping carton.

Place in position in hole.

Thoroughly saturate the bag with potable water; use at least 5 gallons.

Measure and record potential of permanent electrode using a calibrated portable reference electrode.

Refill hole with suitable backfill.

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## Permanent Underground Reference

SCALE 1/4

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