

# Model UL - LongLife<sup>™</sup> Reference

## Typical Applications

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

## Featuring

- 30 year design life with EDI's LongLife<sup>™</sup> gelled element
- Proprietary backfill mix to retain moisture and minimize migration of contaminants from the surrounding soil
- 50 feet (15 m) 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 - 30 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 UL-xxx-yy  
xxx = Element type  
yy = Termination type

## Design Compatibility:

The **Model UL** is designed for long-term permanent use 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 those situations where there is limited access, the EDI Model US 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. Also see Model UL50 which has been optimized for a 50 year design life.

## electrochemical devices, inc.

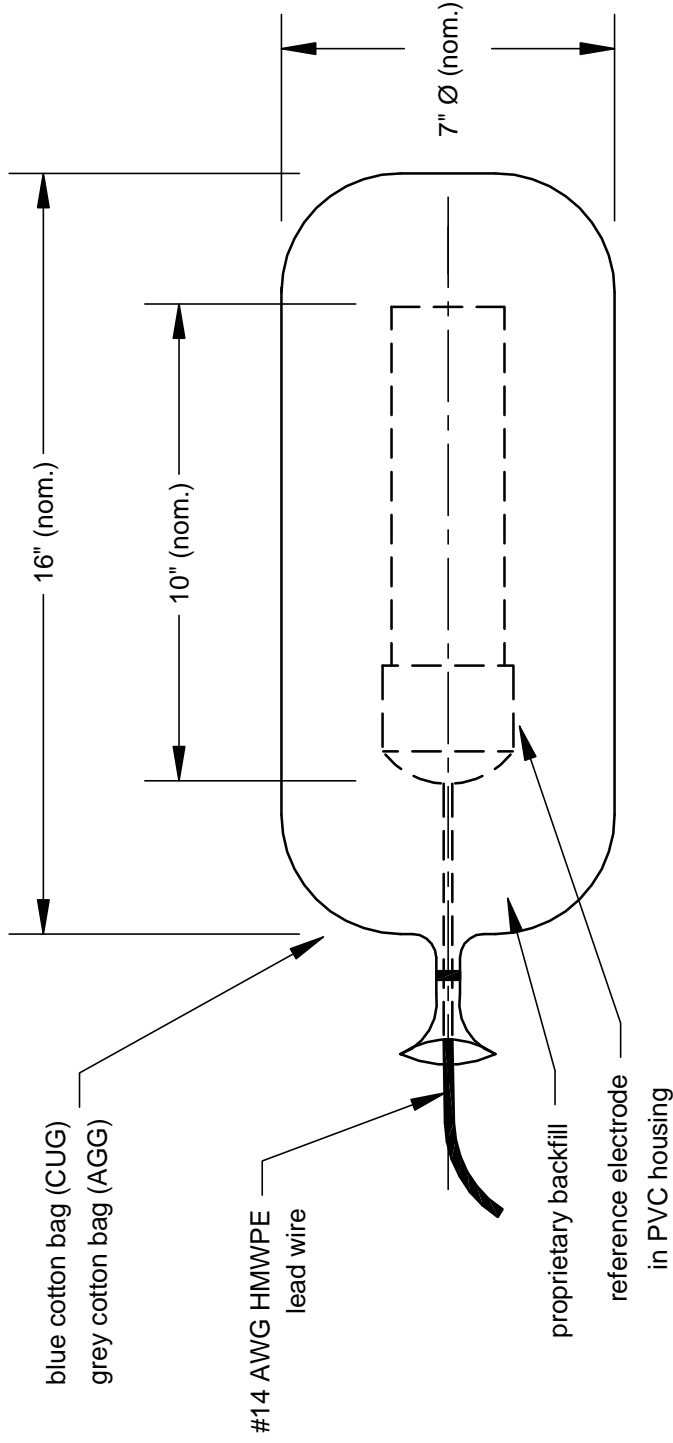
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*U Series  
Underground  
Reference  
Electrodes*



## Model UL - 30 year (nom.) design life

Specify as EDI Model UL-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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