

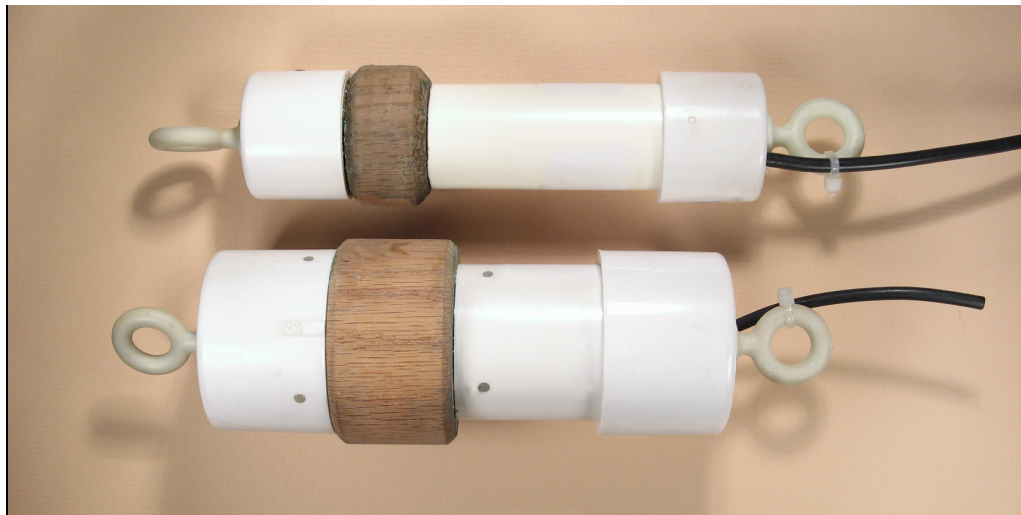
Model UT - Undertank Reference

Typical Applications

- Measuring potential profiles in perforated or slotted tubes beneath aboveground storage tanks

Featuring

- All wood membrane for contact to the electrolyte
- Two non-metallic ring bolts for access from either end of the pipe
- #14 RHW/USE lead wire is standard



Product Specifications

UT2 for 2 in. dia. pipe: 5.5 in. (14 cm) long with 1.75 in. dia. (4.45 cm) wood membrane

UT3 for 3 in. dia. pipe: 8 in. (20.3 cm) long with 2.5 in. (6.35 cm) wood membrane

Shipping wt. approx. 2 lbs (1 kg) plus wire
#14 RHW/USE wire: 1.5 lbs (.7 kg)/100 ft.

Design life – 20 years

Element Types

AGG - saturated gelled Ag/AgCl

CUG - saturated gelled Cu/CuSO₄

Terminations

LW_{nnn} - nnn feet #14 AWG RHW/USE

CW_{nnn} - nnn feet of custom wire

Model Designation

Specify as EDI Model UT_a-xxx-LW_{nnn}

a = 2 for 2 in. pipe or 3 for 3 in. pipe

xxx = Element type

nnn = Lead wire length in ft.

The **Model UT** is designed for taking potential profiles in perforated or slotted tubes below aboveground storage tanks. There are two standard designs offered for both 2 in. and 3 in. diameter pipe. Contact to the electrolyte is through an all wood membrane which is more resistant to breakage and will not clog with salts or dry out as rapidly as a ceramic membrane. The **Model UT** is outfitted with two non-metallic ring bolts to enable use from either end of the pipe. Custom designs for different diameter pipe can be done.

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*U Series
Underground
Reference
Electrodes*



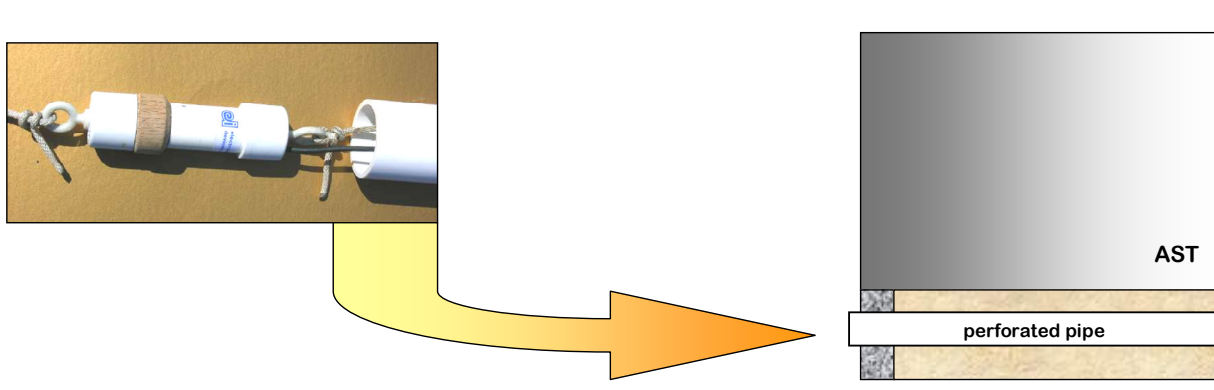
Installation Instructions

Undertank Reference Electrodes

These instructions apply to EDI Model UT undertank reference electrodes with gelled copper/copper sulfate (Cu/CuSO_4 , model code CUG) or gelled silver/silver chloride (Ag/AgCl , model code AGG) elements. After removing electrode from carton, record the serial number and QC test potential; these are located on the yellow tag attached to the lead wire. Be sure to follow the correct procedures. Failure to follow these procedures will significantly shorten the life of the product.

Storage When the electrode will not be used for more than a week, the vinyl cap should be placed so that it covers the wood membrane. If the vinyl cap is lost or damaged, an alternative storage procedure is to wrap the wood membrane with a wet (potable water) paper towel and then overwrap it with either a clingy plastic wrap or aluminum foil to retard evaporation. The electrode should be stored indoors at room temperature and out of the sun. Before reusing the electrode, remove cap or overwrap and soak it for a couple of hours in potable water. The electrode may be left in the perforated pipe beneath the tank provided it is in a location where the temperature will not exceed 110°F (45°C).

Usage Before pulling the reference electrode through a perforated pipe for the first time, the pipe must be flushed and cleared by dragging a dolly of equal or greater diameter through it in order to clear any obstructions. This pipe should be covered when not in use. Tow lines are to be attached to both eyebolts for pulling the reference electrode. **Never pull the reference electrode by pulling on the lead wire.** There must be a moisture film on the bottom of the perforated pipe in order to make valid potential measurements; it may be necessary to flush the pipe to create this film. Since the measurement path usually has high resistance, it will be necessary to use a high input impedance (>100 Meg) meter to obtain a valid reading.

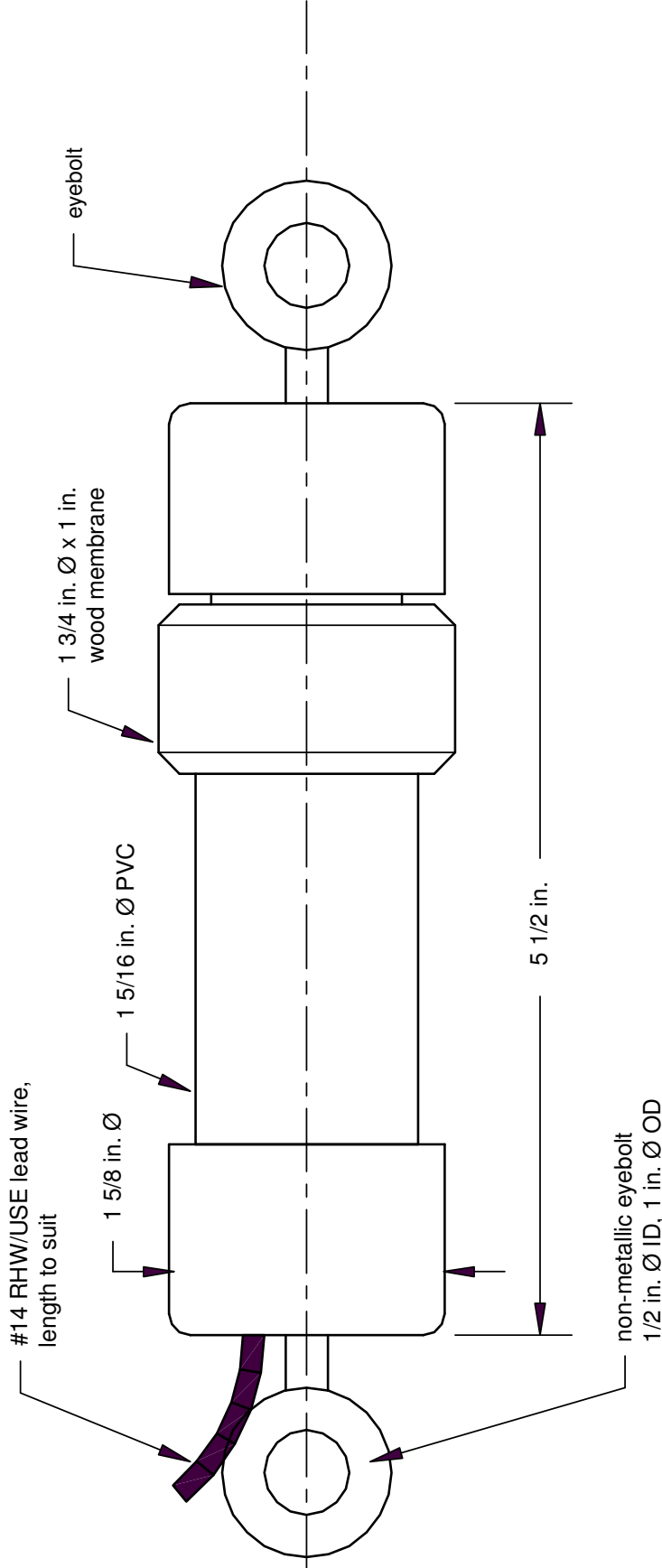


Specify as EDI Model UT2-xxx-LWnnn where

xxx = element type, AGG or CUG
nnn = lead wire length in feet

Element Types

AGG = Saturated gelled Ag/AgCl
CUG = Saturated gelled Cu/CuSO4



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Note: This reference is designed for use in slotted tubes 2 inch diameter or larger. See also drawing UT3ASY for a similar product designed for use in slotted tubes 3 inch diameter or larger.

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Undertank Reference Electrode

SCALE FULL

DATE 05/24/06

DRAWN BY FJA

DRAWING NUMBER UT2ASY

Specify as EDI Model UT3-xxx-LWnnn where

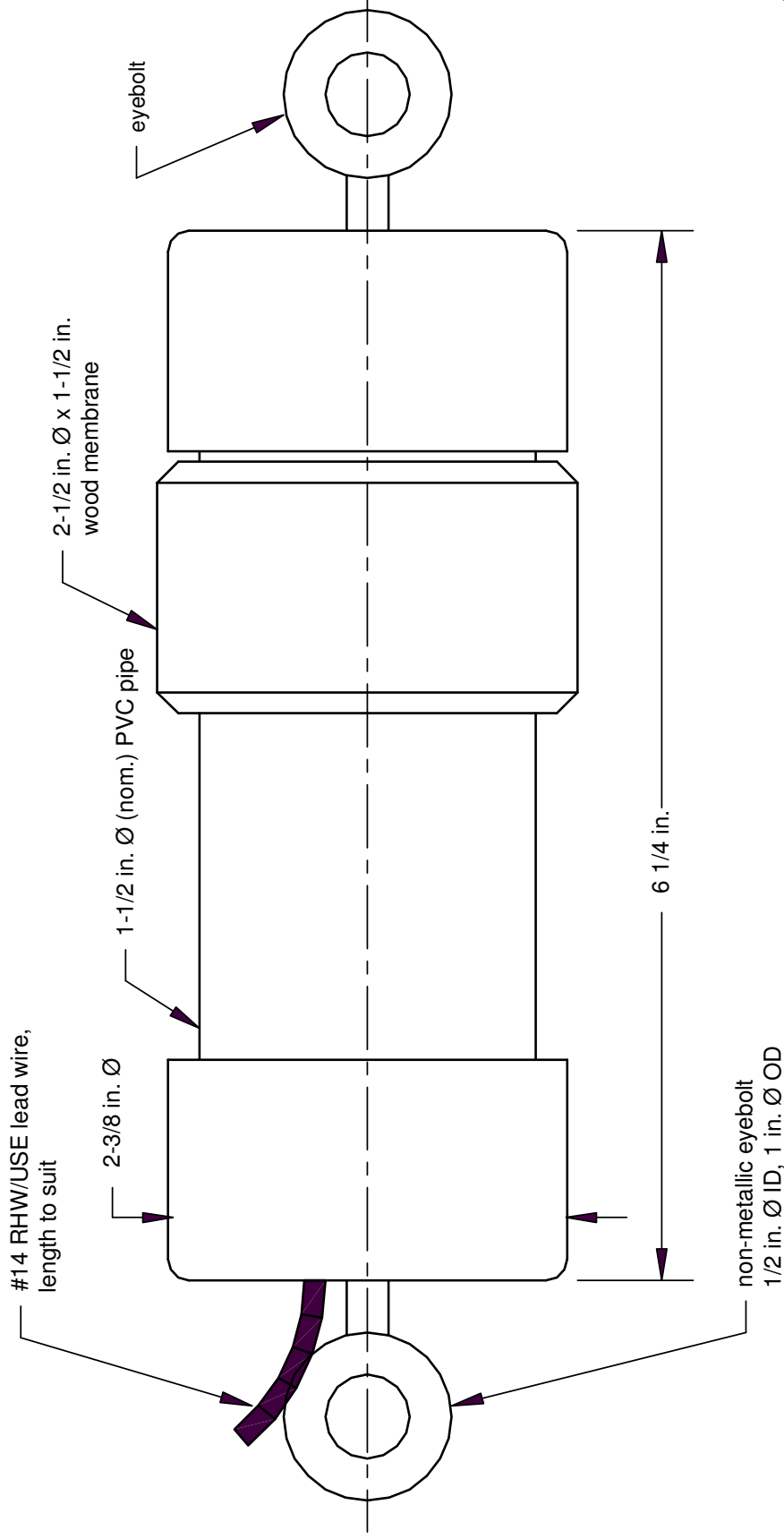
xxx = element type, AGG or CUG

nnn = lead wire length in feet

Element Types

AGG = Saturated gelled Ag/AgCl

CUG = Saturated gelled Cu/CuSO4



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Note: This reference is designed for use in slotted tubes 3 inch diameter or larger. See also drawing UT2ASY for a similar product designed for use in slotted tubes 2 inch diameter or larger.

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Undertank Reference Electrode

SCALE FULL

DATE 08/07/06

DRAWN BY FJA

DRAWING NUMBER UT3ASY