Model UX – Special Products

EDI can customize any of its underground products or design special products to meet the unique requirements of a particular application. These products are designated as Model UX followed by a sequence number. Contact us for additional information on any of these products.

**Special and Custom Underground Products:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>UX08</td>
<td>Model UX08 is a cylindrical metal coupon, either steel or ductile iron.</td>
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<tr>
<td>UX09</td>
<td>Model UX09 is a variant of Model UL bagged underground reference. It has been adapted for installation at the bottom of a test station riser.</td>
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<tr>
<td>UX10</td>
<td>Model UX10 is a multiple reference assembly consisting of 2 USs plus a ½ inch (1.2 cm) diameter rod coupon encased in cement. The entire assembly is contained in a cotton bag and encapsulated in backfill.</td>
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<tr>
<td>UX15</td>
<td>Model UX15 is Model UL reference electrode and a #4 rebar coupon encase in cement, the entire assembly is contained in a cotton bag filled with gypsum bentonite backfill.</td>
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</table>
Specify as EDI Model UX08-xxx-2Wnnn where nnn is length of lead wires in feet, color as specified.
and xxx is coupon material
STL is C1010 steel
DCI is F33800 ductile iron

Specify as EDI Model UX08-A36-LWnnn where nnn is length of lead wires in feet

Ductile iron and steel coupons
Model UX09 is a variant of Model UL. The gel chamber is smaller and the earth contact bag has been moved to the side wall. It is designed to be bonded to a test station riser. Design life is 25 years.

Specify as EDI Model UX09-xxx-yy where
xxx = element type, AGG or CUG
yy = termination, LWnnn or CWnnn

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

Termination Types
LWnnn = nnn ft. #14 RHW/USE lead wire
CW = custom wire as specified by customer
Typical installation of Model UX09 reference electrode on an RMU or test station riser. Components shown in dashed lines are user supplied.

After installation, fill hole to top of reference electrode with a moisture retaining backfill consisting of 75% sand and 25% bentonite. This will minimize the chance of the reference electrode drying out.
1/2" steel rod or #4 rebar, cast in cement cylinder 1-1/2" Ø x 10" 6" of steel bar exposed

Model US modified to place sensing ports at mid-point.

Wire connections - Lead wires are spliced to a four conductor shielded cable. Conductors are #14 PVC insulated with a nylon sheath; outer jacket is black PVC, 3/8" Ø. All splices are located in potting chamber and encapsulated in polyurethane or epoxy potting compound.
Red wire - reference electrode
Orange wire - reference electrode
Blue wire and black wire - both connected to the rebar probe.

Assembly details - The two Model US references, the concrete cylinder and the potting chamber are secured as shown. Sensing ports on references face the concrete cylinder. Assembly contained in a cotton bag filled with gypsum-bentonite backfill. Approximate bag dimensions are 7" Ø x 20" long. Approximate weight is about 30 lbs.

Specify as EDI Model UX10-xxx-LWnnn
where xxx is element type
AGG = Ag/AgCl
CUG = Cu/CuSO4
and nnn is cable length in feet
packaged reference and rebar coupon

Note: Model UL50 (50 year design life) can be substituted for the Model UL. This will extend the electrode length as shown by the dashed line. The model designation for the extended life reference is Model UX15A-xxx-LWnnn.

Specify as EDI Model UX15-xxx-LWnnn where xxx = element type (CUG for Cu/CuSO4 or AGG for Ag/AgCl) and nnn = lead wire length in feet.