Model UD – Dual Element Reference

**Typical Applications:**
- Aboveground and underground storage tanks, buried pipelines, elevator shafts

**Featuring:**
- Two sensing elements: a 30 year design life Cu/CuSO₄ or Ag/AgCl gelled element plus an encapsulated zinc element
- Can be installed in a 2 inch (5 cm) diameter bored hole
- Proprietary backfill mix to retain moisture and minimize migration of contaminants from the surrounding soil

**Housing Specifications**
- Size – 1 5/8 inch dia. x 21 inch long (4.2 cm dia. x 54 cm long)
- Shipping weight – 5 lb (2.3 kg)

**Element Types**
- Zinc plus either:
  - AGG - saturated gelled Ag/AgCl
  - CUG - saturated gelled Cu/CuSO₄
- Design life – 30 years
- Shelf life – 1 year minimum

**Terminations**
- LWnnn - nnn ft. #16 AWG 2 conductor
- Neoprene jacketed unshielded cable

**Model Designation**
- Specify as EDI Model UD-xxx-LWnnn
  - xxx = element type
  - nnn = cable length in feet

**Design Compatibility**
The Model UD dual element electrode is frequently specified for use between the primary and secondary containment of an aboveground storage tank or between adjacent storage tanks at service stations. It can also be installed in a 2 inch (5 cm) diameter hole which makes it ideal for retrofit through asphalt or concrete where drilling a large diameter hole is difficult or costly.

**Installation**
- **ASTs:** Place directly on the sand bed at a depth that will ensure at least 2 inches (5 cm) of sand between the reference and the structure. **Other applications:** Drill a 2 inch (5 cm) dia. hole, lower the electrode into place and slurry in backfill.
Specify as EDI Model UD-xxx-LWnnn where
xxx is element type and
nnn is cable length in feet

Element Types
AGG = Ag/AgCl (saturated, gelled) plus zinc
CUG = Cu/CuSO4 (saturated, gelled) plus zinc

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Gelled silver or copper
LongLife element
30 year (nom.) design life

Zinc element
1 5/8" dia. (typ.)

Earth contact backfill
held in place with
cotton sleeve (2 places)

6 1/2" (nom.)

21" (nom.)

PVC housing

5" (nom.)

2 conductor cable, #16 AWG
Neoprene jacket, not shielded
White wire to zinc element
Black wire to CuSO4 or AgCl
element

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