



**Environmental Technology, Inc.**  
**Online Information Network!**

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**Newsletter/ETI Interface**  
**April, 1996**

**"Providing Our Customers and Prospects With Timely Information"**

**Spring Has Sprung**

As Winter recedes to memory and the weather in many regions permits a resumption of construction activity, we are pleased to announce the availability of selected Snow Melting Accessories to accommodate the installation of our sensors and controls. Inventories of all items pictured on the enclosed sheets have been accumulated. Pricing is available on request and will also be included in the forthcoming Price List.

**New Product Update**

Pricing for the recently-introduced APS™- 3B, APS™- 4, SC™- 40 and RCU™- 1 is available and will appear in the revised Price List. Delivery of all products in the family is scheduled for mid to late June - a worldwide shortage of the plastic resin utilized in the enclosure accounts for this delay. Imminent action by UL on the 277 volt versions of the APS™- 4 and SC™- 40 may permit corresponding shipment of these products.

**Installation Tips**

Water/moisture is the nemesis of reliable electrical systems, degrading the dielectric integrity of conductor insulation or corroding wire splices and terminations. The former presages fault conditions (phase-to-phase or ground), while the latter manifests high impedance connections, resulting in poor continuity and/or insulation temperature increases sufficient to cause damage or breakdown. To elaborate upon the instructions that accompany our various products, we offer the following recommendations.

- Watertightness of underground or embedded raceways should be imperative. Whenever possible, conduits should be installed with positive slope; unavoidable low points should be equipped with drain fittings. If nonmetallic conduit is used, a uniform coating of solvent cement should

be applied about the circumference of the conduit end and, following full insertion into the mating coupling, the assembly should be twisted 1/4-turn. The threads of rigid metallic conduit should be coated with a commercially available compound containing colloidal zinc or copper. (Caution: the use of Teflon tape, plumber's dope and acrylic or bitumastic coatings compromises the raceway's inherent ground continuity and may require the remedial installation of an equipment grounding conductor.) Electrical metallic tubing (EMT) may only be embedded in elevated slabs and should always employ UL Listed concrete-tight fittings.

- Junction boxes installed in slabs on grade or outdoors, both in-pavement or direct burial, should be of watertight design with raceway terminations waterproofed in the same manner as that described for couplings.
- Exposed junction boxes installed outdoors or in damp environments be raintight or weatherproof, consistent with the location. All rigid metallic raceway terminations should employ gasketed raintight conduit hubs or sealing locknuts. Nonmetallic raceway terminations may employ waterproof nonmetallic conduit hubs, nonmetallic box adapters solvent cemented into nonmetallic conduit couplings, or nonmetallic conduit terminal adapters in conjunction with sealing locknuts.
- For splicing of all conductors in hostile locations, we encourage the use of epoxy filled water resistant wire nuts featured in the Snow Melting Accessories enclosed. After immersing test sample splices in salt water for weeks, we confidently endorse them.
- We'd like to help you install our products!