RCU™–1 Remote Control Accessory

Installation Instructions

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Overview

The RCU-1 Remote Control Unit operates as a companion accessory to either the APS-3B or APS-4 Snow/Ice Melting Controllers and provides both remote control and indication. In addition to the Remote Control Unit, a planned installation will include a snow/ice sensor. Model APS-4 systems may, also, utilize one or more Model SC-40 Satellite Contactors. See the Installation Instructions for each selected unit regarding specific installation requirements and procedures.

Installation

Rough-In

The RCU-1 Remote Control Unit is suitable for both flush and surface mount installations.

Flush mounting applications may employ one of the following rough-ins:
1) 1-1/2" (38.1 mm) deep single gang switch box.
2) 1-1/2" (38.1 mm) deep outlet box with single gang device cover.
3) Single gang low voltage rough-in ring.

Surface mounting applications may employ one of the following rough-ins:
1) 1-1/2" (38.1 mm) deep handy box.
2) 2" (50.8 mm) deep single gang cast or nonmetallic device box.

Wiring

The RCU-1 Remote Control Unit interfaces with its host APS-3B or APS-4 Control Panel via a NEC Class 2 circuit which may have an installed length as great as 2,000 feet (609.6 m) utilizing 2-conductor #18 AWG jacketed cable. For distances exceeding this length, contact ETI applications personnel for assistance. (*Caution*: Do not route this cable in close proximity to high current-carrying wiring.)

The APS-3B/APS-4 Control Panel low voltage terminal block is shown below in Figure 1. It is unnecessary to discriminate between the two conductors when connecting to the "Remote Control" terminals.

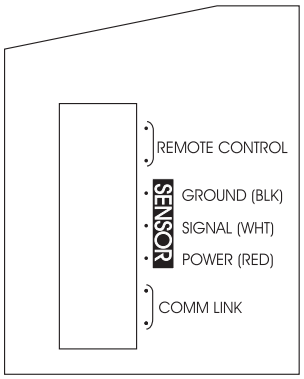

Figure 1.

Checkout

Once the installation has been properly completed and energized, the green “Supply” LED will be illuminated. Should *any* individual momentary contact “Heater Cycle” push button be held depressed, *all* LEDs will flash, continuously, at one second intervals until the “offending” push button is released.

Once weather tracking has begun, should any installed sensor detect snow/ice, the APS-3B/APS-4 Control Panel will initiate operation of the snow/ice melting system, this being signaled by the amber “Heater” LED.

The APS-3B/APS-4 Control Panel “Hole-On Time” adjustment, having a range of 0 to 10 hours, may be employed for the following purposes.

- To maintain snow/ice melting function for a selected time duration, beginning when *all* installed sensors concur that snowfall has ceased. This for example, ensures complete clearing and drying of such sensitive locations as ramps for the physically challenged, or permits effective clearing of zones regularly experiencing excessive drifting , slush deposition or similar anomaly.

- To manually energize the snow/ice melting system for a selected time duration by depressing the “Heater Cycle” push button for (at least) 3 seconds and releasing. This mode is most useful as an annual, pre-season, operational test of the snow/ice melting system or as a diagnostic aid in troubleshooting. If the outdoor temperature is sufficiently cold, the system will be continuously energized for the time duration selected on the APS-3B/APS-4 Control Panel; should the temperature be excessive, the snow/ice melting system will cycle throughout the selected time duration: 64 seconds *on* and 184 seconds *off*.

If you experience installation problems or have any question regarding proper installation procedures, ETI service personnel are available for assistance during normal business hours; 8:00 am to 4:00 pm EST. Phone (800) 234-4239, Fax (574) 233-2152.