



& ASSOCIATES, INC.

heat tracing specialists

AIC 4.2

SNOW MELTING CONTROLLER

Moisture sensing grid



Description

The AIC4 is a universal snow and ice detector used to control snow melting heaters. Controller operates heaters during snowfall or icing conditions. When operating only during precipitation WITH cold, substantial energy savings are seen over traditional thermostatic controls.

Features

- *Hold-on timer will keep system energized for a time after the icing condition stops. This allows the heaters to completely melt remaining snow and ice.*
- *Push-button allows the operator to energize/de-energize the system or run in full auto.*
- *The AIC4 switches to AUTO if it senses 70°F for 10 mins. This is an exclusive safety feature that ensures your system is not unnecessarily energized if left in Manual On mode.*
- *Universal mount system allows either conduit top mounting or through mounting tabs.*
- *Optional wireless monitoring with #85248*

Operation

Unit is designed to be fully automatic, it senses both moisture and temperature. During precipitation that could result in ice formation the control will energize its output relay. Increased load capacity, or 3-phase loads, can be operated by having this unit operate a remote mounted contactor.

Specifications

1. *Sensor initiates control operation during conditions conducive to ice formation. That is, precipitation when the ambient temperature is below 40°F.*
2. *The controller will assure a minimum on time of one hour.*
3. *Controller operates on 120VAC or 208-277VAC*
4. *The relay provided is rated at 16A @ 120V. Local codes and accepted wiring practices may limit actual usage further. For 3-Phase or for larger loads, use this unit to power an available external contactor.*
5. *Weather resistant enclosure for outdoor mounting.*
6. *The controller provides an AUTO/OFF/ON switch. Normal boot-up mode is AUTO. In AUTO, the control will activate its relay when icing conditions are indicated by the sensor and will energize for an hour. In the OFF position, the heater remains off regardless of icing conditions until mode is changed. In the ON position, the contactors are engaged until mode is changed.*

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