

SNOW SWITCH MODEL APS-3C AUTOMATIC SNOW/ICE MELTING SYSTEM CONTROL PANEL

FEATURES & BENEFITS

- Automatic snow/ice melting control
- Operates electrically- and mechanically- held contactors for pilot duty applications
- Energy management computer (EMC) interface
- Accommodates MI, constant wattage and self-limiting heaters
- Multiple sensor capability
- Heater hold-on and test capabilities • C-UL-US
- Simple to install and operate
- Low system costs
- Minimum energy costs

DESCRIPTION

The APS-3C Snow Switch when used with compatible sensors automatically controls snow/ice melting heaters, ensuring minimum operating costs. Typical applications include pavement, sidewalk, loading dock, roof, gutter and down spout snow/ice melting. The APS-3C is interchangeable with earlier APS-3 models.

The adjustable hold-on timer continues heater operation for up to 10 hours after snow stops to ensure complete melting. The optional RCU-3 Remote Control Unit can be located where system operation can be conveniently observed. It duplicates many of the controls and indicators on the APS-3C

front panel. It is used to clear tracked and drifting snow that may not land on a sensor.

The calibrated 40°F to 90°F (4°C to 32°C) high limit thermostat prevents excessive temperatures when using constant wattage and MI heaters. It also permits safe testing at outdoor temperatures too high for continuous heater operation. The temperature sensor is included.

The APS-3C provides a relay closure interface for use with energy management computers (EMC). This feature can also be used for general purpose remote control and annunciation and other advanced applications.

All sensor and communications wiring is NEC Class 2. This simplifies installation while enhancing fire and shock safety. The APS-3C can interface up to six sensors from the CIT-1 product family. Using more sensors provides superior performance by better matching the controller to site performance requirements.

The APS-3C is an exceptionally capable deicing controller. For complete information describing its application, installation and features, please contact Customer Service or check on the web at www.networketi.com.

SPECIFICATIONS

GENERAL

Area of use

Non-hazardous locations

Approvals



Type 873

Temperature Regulating Equipment
Also evaluated by Underwriters Laboratories Inc® in accordance with
UL 1053 Ground-Fault Sensing and Relaying Equipment

ENCLOSURE

Protection

NEMA 3R

Cover attachment

Hinged polycarbonate cover, lockable

Entries

One 1-1/16" entry (top) for NEC Class 2 connections

Two 1-11/16" entries (bottom) for supply and load power, except 277V single phase

Two 1-1/16" entries (bottom) for supply and load power, 277 V single phase only

Material

Polycarbonate

Mounting

Wall mount

Dimensions

9.125" (L) x 11.500" (W) x 6.562" (H)

232mm (L) x 292mm (W) x 167mm (H)

CONTROL

Supply voltage

120 VAC, 50/60 Hz, 35 VA

208-240 VAC, 50/60 Hz, 35 VA

Load

120 VAC, 24 amp max. inductive

240 VAC, 24 amp max. inductive

Contact type

3 Form C

Weight

3 Pounds

Maximum Ratings

Voltage: 240 VAC Current: 24 amps

Heater hold-on timer

0 to 10 hours; actuated by snow stopping or toggle switch

System test

Switch toggles heater contact on and off. If temperature exceeds optional high limit thermistor (45°F), heater shuts off to reduce costs and prevent damage.

FRONT PANEL INTERFACE

Status indicator

SUPPLY (green): Power on

HEAT (yellow): Heating cycle in progress

SNOW (yellow): Sensor(s) detect snow

Communication Bus

Number of cascaded units

Unlimited

Contactor delay

5 second

Bus-wire type

3-wire jacketed cable

Circuit type

NEC Class 2

Lead length

Up to 500' (152m) using 18 AWG 2-wire jacketed cable Up to

1,000' (304m) using 12 AWG 2-wire jacketed cable

GROUND FAULT EQUIPMENT PROTECTION (GFEP)

The APS-3C Snow Switch does not come with built-in GFEP protection even though a GFEP LED light is present on the controller. This is due to sharing the same circuit board as an APS-4C Snow Switch. If GFEP is needed then consider using an APS-4C Snow Switch Controller.

ENVIRONMENTAL

Operating temperature

-40°F to 160°F (-40°C to 71°C)

Storage temperature

-50°F to 180°F (-45°C to 82°C)

ORDERING INFORMATION

ORDER NUMBER

DESCRIPTION

22470

APS-3C Control Panel, 120 VAC

22471

APS-3C Control Panel, 208-240 VAC

ACCESSORIES

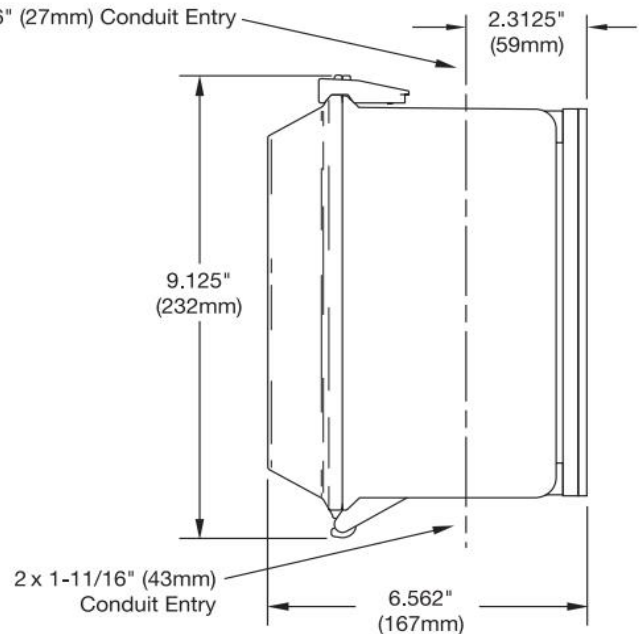
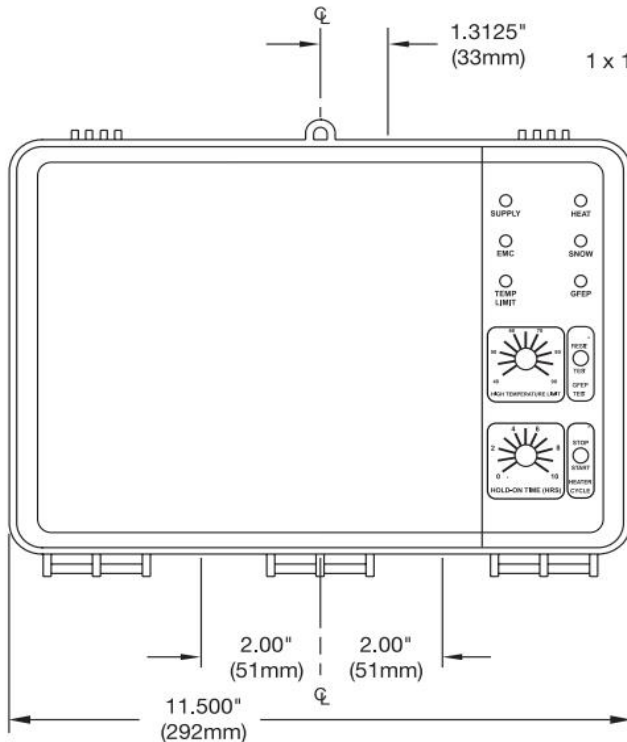
21357

RCU-3 Remote Control (Optional)

25076

Temperature Sensor w/ 20' (6m) lead (Qty 1 included)

DIMENSIONAL DRAWINGS



CONTACTING CUSTOMER SERVICE

For assistance, contact Customer Service. Office hours are from 8:00 AM until 5:00 PM ET.

Email: info@networketi.com

Web: networketi.com

Mail: ETI
1850 North Sheridan Street
South Bend, IN 46628

LIMITED WARRANTY

ETI's two year limited warranty covering defects in workmanship and materials applies. Contact Customer Service for complete warranty information.

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