DELTA-THERM CORPORATION®

DATA SHEET

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 simplifyfies installation while enhancing fi re 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.

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SPECIFICATIONS

GENERAL

Area of use	Non-hazardous locations
Approvals	c UL us LISTED 109R **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)

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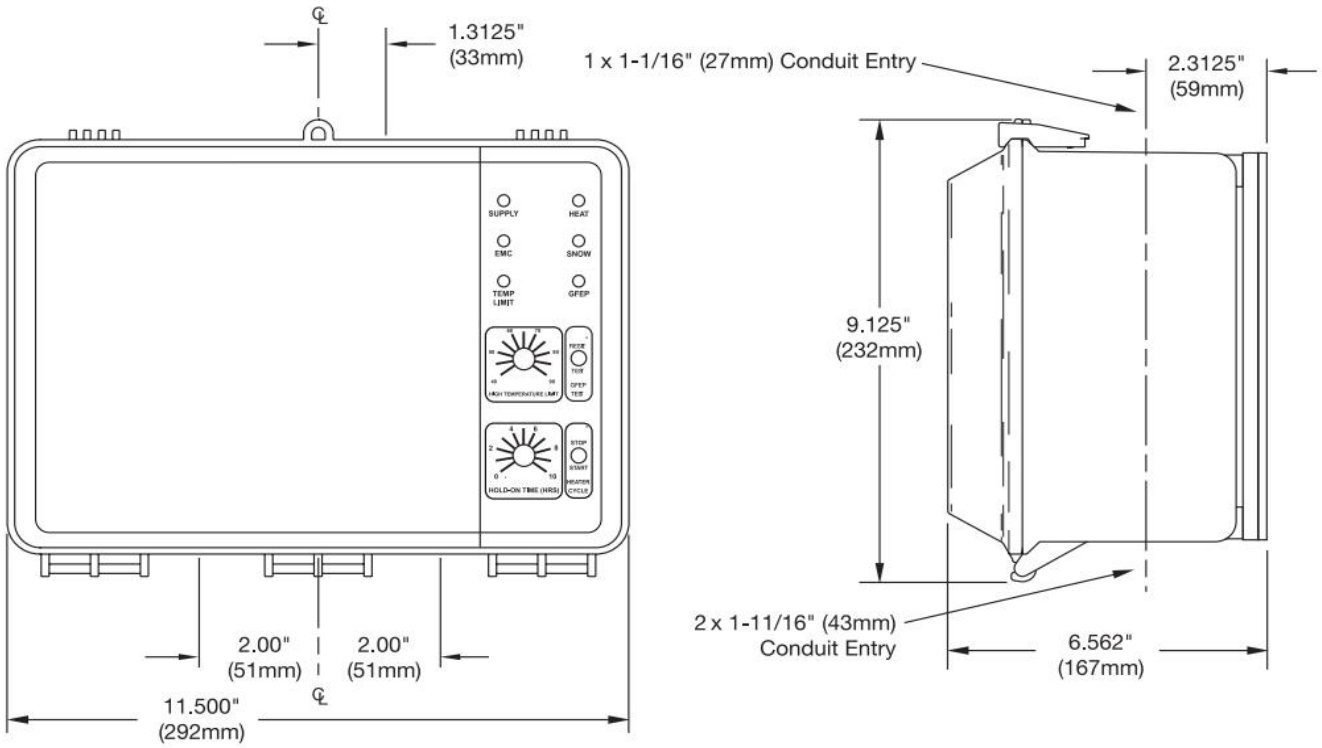
DIMENSIONAL DRAWINGS



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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