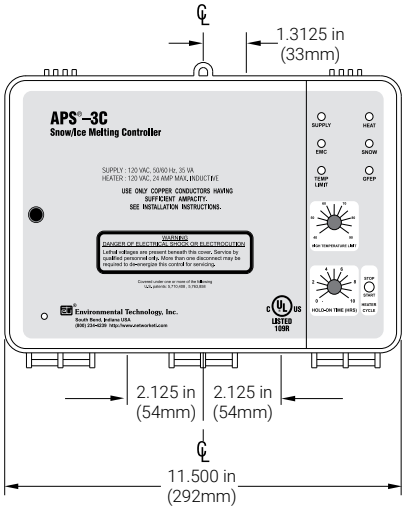
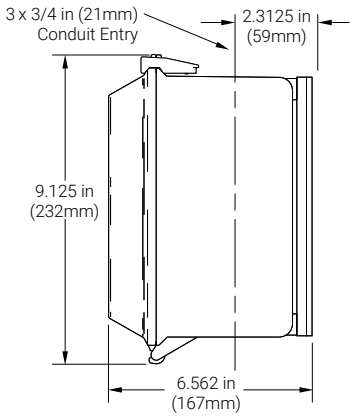
APS-3C

SNOW MELTING AND GUTTER DE-ICING CONTROLLER







PRODUCT OVERVIEW

The ETI® APS–3C snow melting and gutter de-icing controller when used with compatible sensors automatically controls surface snow melting and roof and gutter de-icing heating cables, ensuring minimum operating costs. Typical applications include pavement, sidewalk, loading dock, roof, gutter, and down spout snow/ice melting.

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 heating cables. 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. Multiple sensors provide superior performance by better matching the controller to site performance requirements. The APS–3C can interface up to six sensors.

The APS-3C does not provide ground-fault protection for the heating cable system. This protection is required and must be provided by other devices such as ground-fault circuit breakers or other control methods.

The APS–3C is an exceptionally capable surface snow melting and roof and gutter de-icing controller. For complete information describing its application, installation, and features, please contact your nVent representative or visit our web site at nVent.com.

GENERAL

Area of use	Nonhazardous locations
Approvals	c UL us LISTED 109R Type 873 Temperature Regulating Equipment

ENCLOSURE

Protection	NEMA 3R
Cover attachment	Hinged polycarbonate cover, lockable
Entries	Three 1-1/16" entries
Material	Polycarbonate
Mounting	Wall mounted

CONTROL

Supply voltage	APS-3C-120 V: 120 V 50/60 Hz APS-3C-208/240 V: 208/240 V 50/60 Hz
Contact type	Form C
Maximum ratings	Voltage: 240 V Current: 24 A
Heater hold-on timer	0 to 10 hours; actuated by snow stopping or toggle switch
System test	Switch toggles the heater contact on and off. If temperature exceeds high limit, heater cycles to prevent damage.

SNOW/ICE SENSORS

Sensor input	Up to 6 sensors; CIT-1, GIT-1, SIT-6E
Circuit type	NEC Class 2
Lead length	Up to 500 ft (152 m) using 18 AWG 3-wire jacketed cable Up to 2,000 ft (609 m) using 12 AWG 3-wire jacketed cable

HIGH LIMIT THERMOSTAT

Adjustment range	40°F to 90°F (4°C to 32°C)
Dead band	1°F (0.6°C)
Sensor type	Thermistor
Circuit type	NEC Class 2
Lead length	Up to 500 ft (152 m) using 18 AWG 2-wire jacketed cable Up to 1,000 ft (504 m) using 12 AWG 2-wire jacketed cable

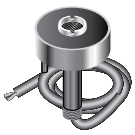
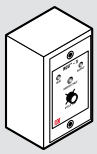
ENERGY MANAGEMENT COMPUTER (EMC) INTERFACE

Inputs	OVERRIDE ON	(10 mA dry switch contact)
	OVERRIDE OFF	(10 mA dry switch contact)
Outputs	SUPPLY	(10 mA dry switch contact)
	SNOW	(10 mA dry switch contact)
	HEAT	(10 mA dry switch contact)
	HIGH TEMP	(10 mA dry switch contact)
	REMOTE	(10 mA dry switch contact)

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 DETAILS

Catalog number	Part number	Description
APS-3C-120V	P000000781	APS-3C Snow Melting and De-Icing Controller, 120 V
APS-3C-208/240V	P000000782	APS-3C Snow Melting and De-Icing Controller, 208/240 V
Snow/Ice Sensors		
 CIT-1	512289-000	CIT-1 Snow sensor
 GIT-1	126795-000	GIT-1 Gutter sensor
 SIT-6E	P000000112	SIT-6E Pavement snow sensor
 RCU-3	P000000883	RCU-3 Remote control unit

LIMITED WARRANTY

ETI's two year limited warranty covering defects in workmanship and materials applies.

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Our powerful portfolio of brands:
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