

## PRODUCT CODE

APS-3C

## PRODUCT DESCRIPTION

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

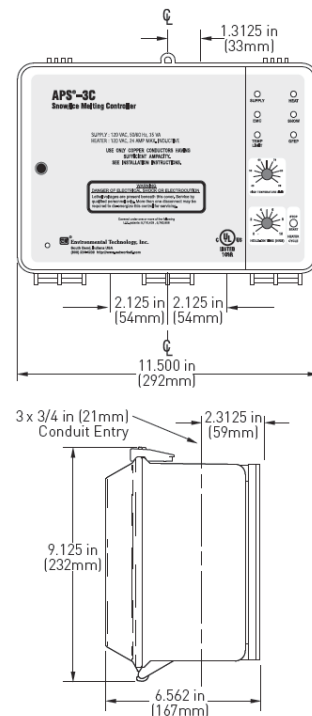
The APS-3C provides a relay closure interface for use with energy management computers (EMC). This feature can also be used for general purpose remote control and annunciation and other advanced applications.

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 Warmup representative.



## SPECIFICATION

Area of Use	Non-hazardous locations
Approval	cULus
<b>ENCLOSURE</b>	
Protection	NEMA 3R
Cover attachment	Hinged polycarbonate cover, lockable
Entries	Three 1-1/16" entries
Material	Polycarbonate
Mounting	Wall mounted
<b>CONTROL</b>	
Supply voltage	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.
<b>SNOW/ICE SENSORS</b>	
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
<b>HIGH LIMIT THERMOSTAT</b>	
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
<b>ENERGY MANAGEMENT COMPUTER (EMC) INTERFACE</b>	
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)
<b>ENVIRONMENTAL</b>	
Operating temperature	-40°F to 160°F (-40°C to 71°C)
Storage temperature	-50°F to 180°F (-45°C to 82°C)

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## PRODUCT LISTING

Code	Description	Amp (A)
COMMBOX-600	Plug-and-Play outdoor controller with 4 x 50A/3pole contactors allowing for a total load of 600A with a minimum power supply of 60A. Comes in LED enclosure with GFEP protection, built-in Digital controller and ground temperature sensor.	600A
AIRsense	Outdoor moisture and temperature sensor, supplied with mounting bracket.	N/A
APS-3C	Snow Melting Controller with incl. slab sensor and built-in dry contacts for EMC and remote control. Rated 208-277V single phase.	N/A
SIT-6E	Surface-mounted snow and ice sensor used with APS series panels. Detects moisture and temperatures and triggers below 38°F for energy-efficient operation. Easy mounting in slabs with multiple conduit connections.	N/A
CIT-1	The maintenance free CIT sensors activate snow melting systems below 38°F and provide automatic triggering of APS series panels. Mast or roof mounting.	N/A
GIT-1	GIT-1 gutter sensor for APS-3C panel. Measures moisture & temperature. Active below 38F.	N/A
GF-PRO	Automatic Controller with GFEP and GF Load	30A

## WARRANTY & MAINTENANCE

When installed according to the installation manual, the APS-3C is covered with Warmup's 1-year manufacturer warranty.

## TECHNICAL SUPPORT

Warmup is available 24/7/365 at (888) 927-6333.

For quotes, layouts and specific technical information, contact us at:

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## RELATED PRODUCTS

- CIT-1 Aerial Snow Sensor - see WSC-1104
- GIT-1 Gutter Ice Sensor - see WSC-1204
- SIT-6E Pavement Mounted Snow Sensor - see WSC-1304
- GF-PRO Snow Switch Model - see WSC-1504