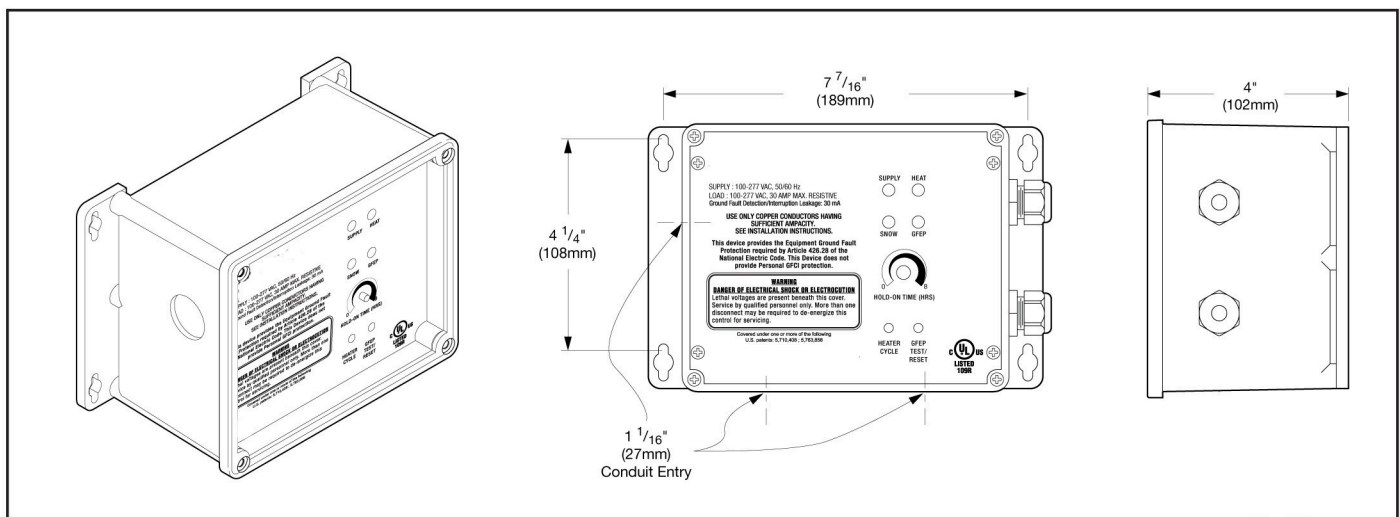


Snow/Ice Melt Controller w/ GFEP

FEATURES & BENEFITS

- Automatic snow and ice melting control minimizes operating costs
- Supply Voltage 100 – 277 VAC
- Rated for up to 30 amp resistive loads
- Integral 30mA of Ground Fault Equipment Protection (GFEP)
- Weather-resistant NEMA 4X enclosure
- UL Listed for Temperature Regulating Equipment
- Adjustable Hold-On timer continues heater operation after snow and ice stop to ensure complete melting
- Dual sensor capability to meet site performance requirements
- Automatic and manual-override operator controls for changing environmental conditions
- Optional remote control operation for added convenience



DESCRIPTION

The Snow/Ice Melting Controller w/ GFEP is an automatic snow and ice melting control system. Utilizing standard snow and ice sensors (sold separately), applications include snow and ice detection and melting for pavement, sidewalks, loading docks, roofs, gutters and downspouts in commercial and residential environments.

The Snow/Ice Melting Controller w/ GFEP interfaces with up to 2 standard sensors to meet site requirements. Roof or mast mounted aerial snow sensors can be paired with gutter ice sensors (gutter deicing applications) or pavement mounted snow and ice sensors (trafficked surface applications). All three sensors detect precipitation as snow at temperatures below 38°F (3.3°C), saving energy and ensuring thorough snow and ice melting.

The Snow /Ice Melting Controller features built-in 30mA, self-testing Ground Fault Equipment Protection (GFEP), digitally filtered to minimize false tripping. A ground fault condition must be manually reset using the Test/Reset switch before heater operation can continue.

The Snow/Ice Melting Controller uses both automatic and manual-override operator controls. The adjustable Hold-On timer can continue heater operations up to 8 hours after snow or ice conditions end to ensure complete melting and a dry surface. The Heater Cycle control button allows manual initiation or cancellation of a heating cycle. These flexible control options provide complete snow melting and water evaporation for lower operating costs.

The Snow/Ice Melting Controller w/ GFEP weighs only 3 pounds and measures 5 1/2"(L) x 9 1/8"(W) x 4 3/8"(H). Comprehensive instruction manuals simplify installation and operation.

These controllers are capable snow and ice controls for medium-sized applications whose features and power requirements do not require bigger control panels.

SPECIFICATIONS

General

Area of use	Nonhazardous locations
Approvals	 Type 873 Temperature Regulating Equipment <small>Also evaluated by Underwriters Laboratories Inc[®] in accordance with UL 1053 Ground-Fault Sensing and Relaying Equipment</small>

Enclosure

Protection	IP 66, NEMA 4X
Cover attachment	Polycarbonate with machine screws
Entries	2 x 3/4" entry (bottom right) for NEC Class 2 connections 3 x 1-1/16" entries (bottom left) for supply and load power
Material	Polycarbonate
Mounting	Wall mount
Dimensions	5 1/2" (L) x 8 1/8" (W) x 4 3/8" (H) / 140mm (L) x 207mm (W) x 112mm (H)

Control

Supply voltage	100 - 277 VAC; 50/60 Hz
Load	30 amp maximum resistive
Contact type	2 Form A
Weight	3 Pounds (not including sensors)
Maximum ratings	Voltage: 277 VAC Current: 30 amps
Heater Hold-On timer	0 to 8 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 GFEP (red): Ground Fault condition GFEP (red, flashing): Failed GFEP (red, rapid flashing): GFEP test in progress
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Snow/Ice Sensors

Maximum quantity	2 ETI sensors
Circuit type	NEC Class 2
Lead length	Up to 500' (152m) using 18 AWG 3-wire jacketed cable Up to 2,000' (609m) using 12 AWG 3-wire jacketed cable

Wire and Cable Ratings

Power cable	Size for heater load (30 amps maximum)
Sensor wiring	#18 AWG jacketed, 3-conductor
Heater cable	Size for maximum heater load
Remote wiring	#22 AWG jacketed, 2-conductor

Ground Fault Equipment Protection (GFEP)

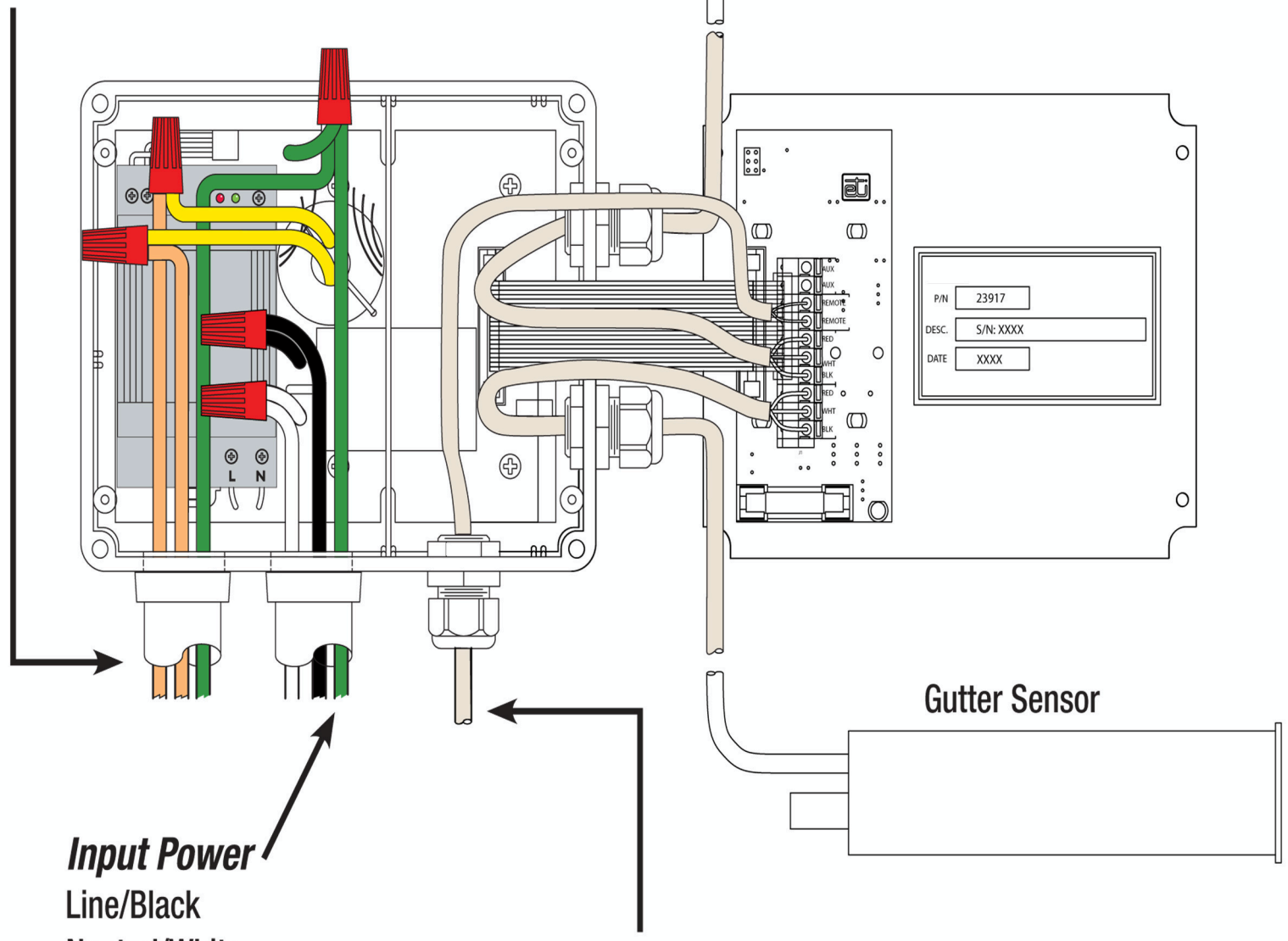
Set point	30mA
Automatic self-test	GFEP verified before contactors operate; GFEP runs on start-up and every 24 hours
Manual Test/Reset	Test/Reset switch on front panel

Environmental

Operating temperature	-31°F to 113°F (-35°C to 45°C)
Storage temperature	-67°F to 167°F (-55°C to 75°C)

Aerial
Snow Sensor

To Heater Cable
Heater Load 1/Yellow
Heater Load 2/Yellow
Heater Ground
(shield)/Green



Input Power
Line/Black
Neutral/White
Ground/Green

Optional
Temperature Sensor

Gutter Sensor

100-277 VAC
50/60 Hz
30 Amp Max.