GF Pro

Snow Melting/De-Icing Controller

- **Automatic Snow Melting/De-Icing Control Minimizes Operating Costs**
- **Supply Voltage 100-277 V**
- **Rated for Up to 30 Amp Resistive Loads**
- **Integral 30 mA of Ground Fault Equipment Protection (GFEP)**
- **Weather-Resistant NEMA 4X Enclosure**
- **C-UL-US Listed for Temperature Regulating Equipment**
- **Adjustable Hold-On Timer Continues Heater Operation After Snow and Ice Discontinue 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 Switch Model GF Pro is an automatic snow and ice melting control system. Utilizing standard Environmental Technology 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 GF Pro interfaces with up to two standard Environmental Technology sensors to meet site requirements. The CIT–1 sensor may be roof or mast mounted and can be paired with the GIT–1 sensor for gutter applications or the SIT–6E sensor for pavement 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. Since 1968, these sensors have been the industry's most versatile and cost-effective automatic snow melting control sensors.

The GF Pro features built-in 30 mA, 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 GF Pro uses both automatic and manual-override operator controls. The adjustable Hold-On timer continues heater operations up to 8 hours after snow or ice conditions end to ensure complete melting. The Heater Cycle control button allows manual initiation or cancellation of a heating cycle. The optional RCU–4 remote control unit can be located for convenient monitoring and control. These flexible control options provide complete snow melting and water evaporation at a low operating cost.

The GF Pro weighs only 3 pounds and measures 5 1/2" (L) x 8 1/8" (W) x 4 3/8" (H). Comprehensive instruction manuals simplify installation and operation. These products are also supported by Environmental Technology technical support.

The GF Pro is a capable snow and ice control for medium-sized applications whose features and power requirements do not require an APS or EUR Series control panel.

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Snow Melting/De-Icing Controller *(cont'd.)*

Specifications

General	
Area of use	Nonhazardous locations
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 & 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 (NO)
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
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	30 mA
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 130°F (–35°C to 55°C)
Storage temperature	–67°F to 167°F (–55°C to 75°C)

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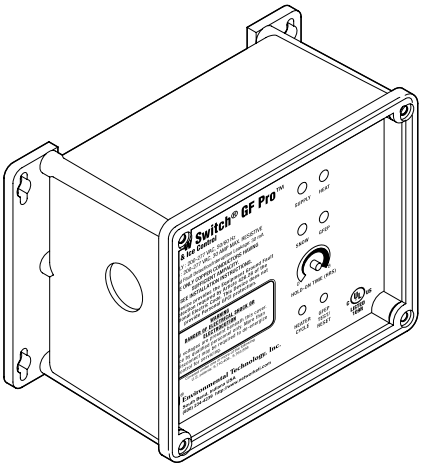
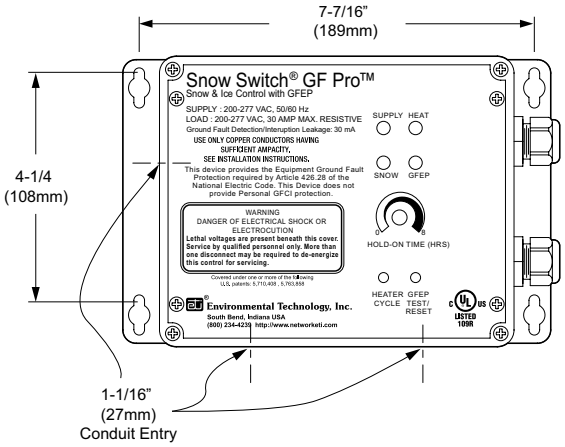
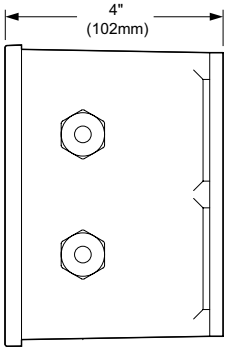
Snow Melting/De-Icing Controller *(cont'd.)*

Dimensions







Specifications and Ordering Information

Model Number	PCN
GF Pro	390029
Accessories	
RCU–4 Remote Control (Optional)	389909
Snow/Ice Sensors (Not Included)	
CIT–1 Aerial Snow Sensor	389749
GIT–1 Gutter Ice Sensor	389757
SIT–6E Pavement Mounted Snow and Ice Sensor	389765
To Order—Specify model, PCN and quantity.	