

## GF Pro Snow Switch

- Automatic Snow and Ice Melting 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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# Heating Cable

## GF Pro Snow Switch *(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

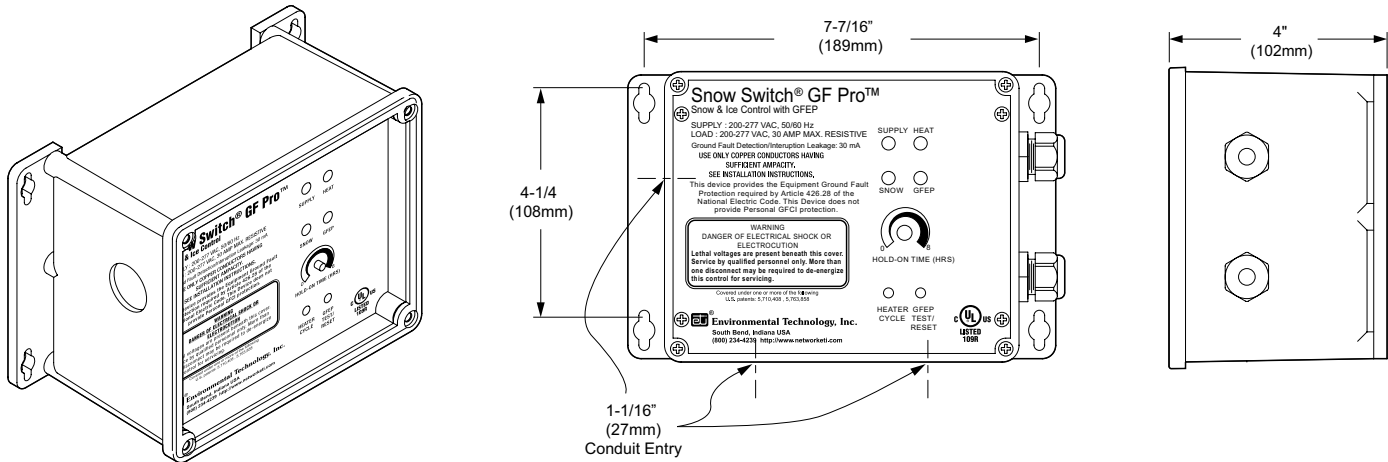
#### Environmental

Operating temperature -31°F to 130°F (-35°C to 55°C)  
Storage temperature -67°F to 167°F (-55°C to 75°C)

# Heating Cable

## GF Pro Snow Switch (cont'd.)

### Dimensions



### Specifications and Ordering Information

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