DELTA-THERM CORPORATION® BRITECH By: INNOVAIR SOLUTIONS

DATA SHEET

SNOW SWITCH MODEL PD PRO

Automatic Snow and Ice Melting System Control

We Manage Heat®

The Snow Switch Model PD 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 PD Pro interfaces with up to two standard Environmental Technology sensors to meet site requirements. The CIT–1, GIT–1, and SIT–6E sensors reliably detect snow and ice melting in gutter and pavement applications. The CIT–1 Aerial Snow Sensor detects falling or blowing precipitation before snow or ice begin to form, allowing the control to begin managing the system. Roof or mast mounted, it can be paired with either the GIT–1 Gutter Ice Sensor (gutter deicing applications) or the SIT–6E Pavement-Mounted Snow/Ice Sensor (trafficked surface deicing applications). All three sensors detect precipitation as snow at temperatures below 38°F (3.3°C). The PD Pro is signaled only if moisture occurs below this temperature, 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 PD Pro features 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. Use optional RCU–3 remote control unit for convenient monitoring and operation. These flexible control options provide complete snow melting and water evaporation for lower operating cost.

The PD 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. PD Pro controllers are backed by Environmental Technology Technical Support. The PD 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. For complete information describing application, installation, and features, please contact Environmental Technology Customer Service or visit our website at www.networketi.com.

Features and Benefits

- Automatic snow and ice melting control minimizes operating costs
- Rated for up to 7 amp inductive loads for pilot duty applications and resistive loads up to 30 amps
- 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 for site performance requirements
- Automatic and manual-override operator controls for changing environmental conditions
- Optional remote control operation for added convenience

Specifications

General

Area of use:	Non-hazardous locations
Approvals:	c UL us LISTED 109R Type 873 Temperature Regulating Equipment

Enclosure

Protection:	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 and 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)

Controls

Supply voltage:	100 – 277 VAC; 50/60 Hz
Load:	7 amp maximum inductive 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

Snow / Ice Sensors

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

Wire & 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

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)

Ordering Information

Order Number	Description
23736	PD Pro
23735	PD Pro Installation and Operations Manual

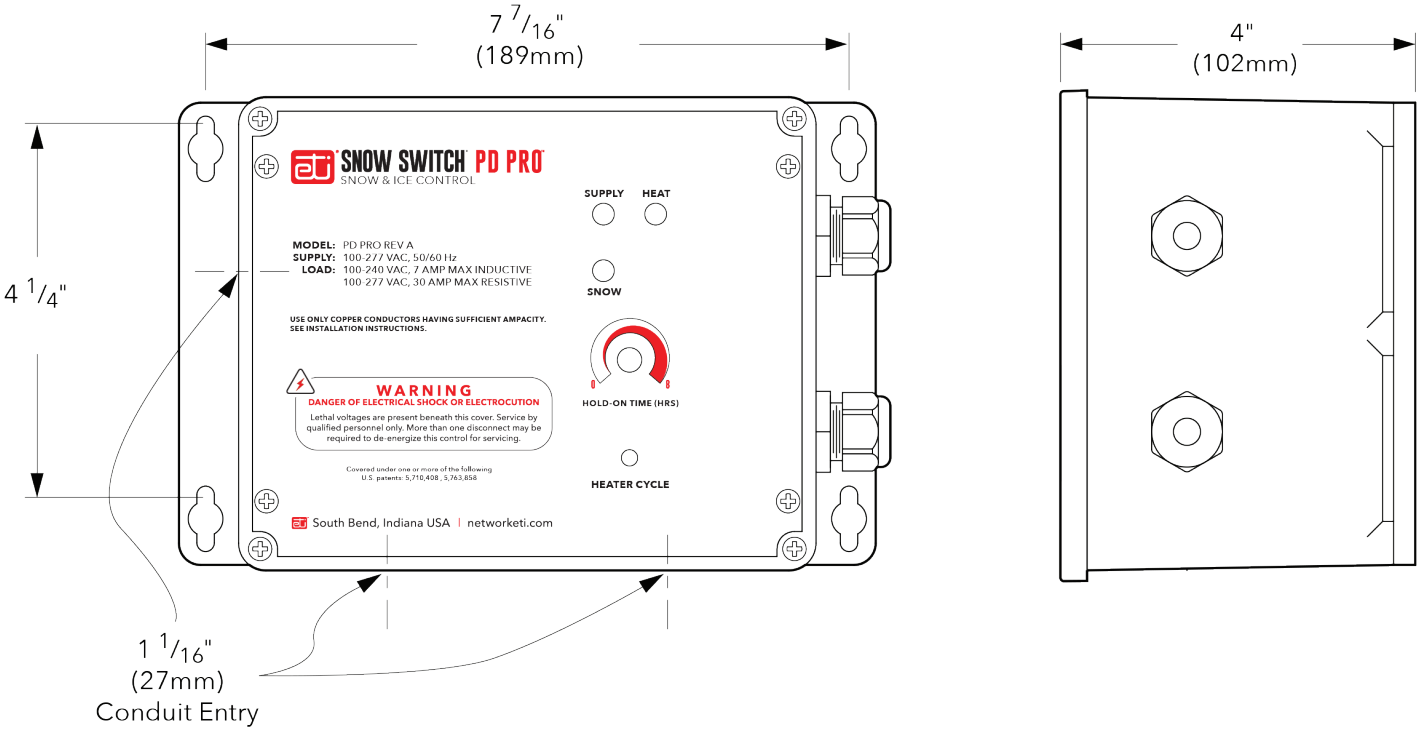
Accessories

Order Number	Description
21357	RCU–3 Remote Control (Optional)
	High Temperature Sensor w/ 20' (6m) lead (Optional)

Snow & Ice Sensors (Not Included)

Order Number	Description
10001	CIT–1 Aerial Snow Sensor
11351	GIT–1 Gutter Ice Sensor
24219	SIT–6E Pavement Mounted Snow/Ice Sensor

Dimensional Drawings



Limited Warranty

ETI's two year limited warranty covering defects in workmanship and materials applies. Contact Customer Service for complete warranty information.

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