

Thermon ArcticSense Automated Snow Detection

Thermon's ArcticSense is specifically designed to detect precipitation in the form of snow, sleet or rain from any angle of incidence, making it ideal for detecting both falling and drifting snow in high winds. Rigorous testing and field evaluations against competitive sensors was integral to the ArcticSense design and development process. The result is a proven design with class leading performance and reliability, ideally tailored for harsh environments. Versatile construction allows for multiple mounting options such as: aerial, ground, duct or custom applications.

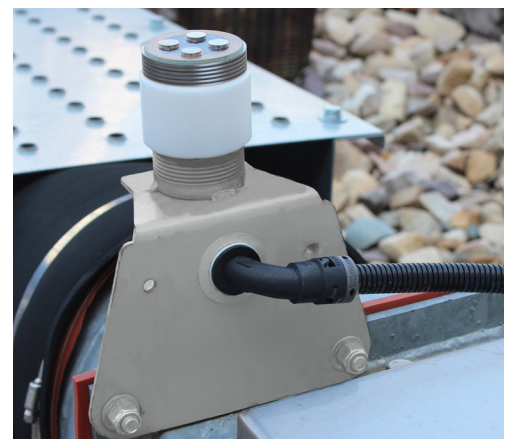
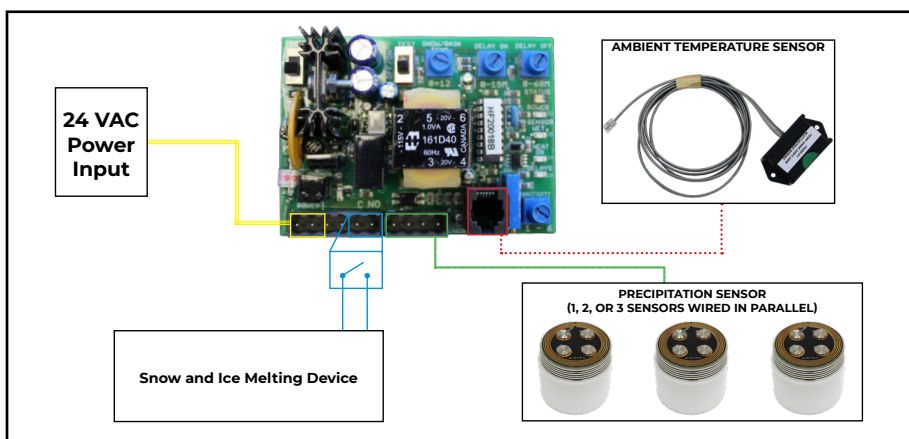


FEATURES

- › Increased sensitivity detects the slightest snowfall.
- › Compact, solid construction makes it extremely rugged and suitable for harsh environments.
- › 360° of vertical side sensing surface provides for snow detection from any direction.
- › Designed for harsh EMI and surge environments. Tested to both IEC62236-4 and AREMA standards.
- › Tunable controls: Snow/rain temperature set point and moisture sensitivity.
- › Stainless steel side sensing electrodes.

BENEFITS

- › Reliably detects both falling and blowing snow.
- › Provides reliable automatic control, minimizing operator involvement.
- › Rugged construction.
- › Corrosion resistant.
- › Easy integration with existing Fastrax™ snow clearing products including; SwitchBlade, Hellfire and FEB.
- › Easily maintained.
- › Custom Applications.



SPECIFICATIONS

SNOW DETECTION CONTROLLER (SDC)	
Input Voltage	24 VAC 60Hz
Maximum Input Power	3A
Output Contact	NO SPST 2A, 120 VAC/30VDC
Environmental	-40F to 140F (-40C to 60C). No ingress protection. Requires suitable enclosure
Mounting	35mm DIN rail
Wire Size	14-22 AWG
Ambient Temperature Sensor	1
Precipitation Sensor(s)	1-3
Dimensions	4.4" (112mm) W x 3.4" (86mm) H x 2" (52mm) D

AMBIENT TEMPERATURE SENSOR (ATS)	
Pre-terminated Lead w/RJ12 Connector	84" (2134mm) Standard. Optional 6" (153mm), 72" (1829mm) & 132" (3353mm)
Mounting	(2) Mounting Holes That Accept #8 Hardware
Environmental	-40F to 140F (-40C to 60C). Suitable for outdoor use.
Dimensions	3" (76mm) W x 1" (26mm) H x 1.5" (39mm) D

PRECIPITATION SENSOR (PS)	
Pre-terminated Leads	Four 18 AWG cooper
Mounting	1/2" NPT Female
Environmental	-40F to 140F (-40C to 60C). Suitable for outdoor use.
Dimensions	2.3" (58mm) W X 2.1" (53mm) H x 2.3" (58mm) D

ADJUSTABLE PARAMETERS

Snow / Rain Temperature: 32F (0C) to 54F (12C) (Default 39F/4C)

On Delay: 0 - 15 Minutes (Default 0 Minutes)

Off Delay: 0 - 60 Minutes (Default 0 Minutes)

Moisture Sensitivity: 1 - 6 (Default 3)

ORDER GUIDE

		Fastrax	Hellfire	OEM
13867-005	Snow Detection Controller. DIN Rail Mount	X		X
HF16426-04	Ambient Temperature Sensor with 84" (2134mm) leads	X	X	X
13862-01	Precipitation Sensor with 144" (3658mm) leads	X		X
13867-001	Retro Fit Kit for Fastrax™ with ATS Only. Includes MISC Hardware	X		
13867-002	Retro Fit Kit for Fastrax™ with ATS and Aerial PS. Includes MISC Hardware	X		
13867-003	Retro Fit Kit for Fastrax™ with ATS and Ground PS. Includes MISC Hardware	X		
13867-004	Retro Fit Kit for Fastrax™ with ATS, Aerial PS and Ground PS. Includes MISC Hardware	X		
HF19031	Retro Fit Kit for Hellfire™ with ATS, Duct PS. Includes MISC Hardware		X	
HF18337-02	10 channel snow detection controller	X	X	X

Visit www.thermon.com to contact a Thermon representative near you.

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