



Outdoor Snow & Ice Melting Controls

- **Orbit's RSMCK-1C, RSMCK-2C and RSMCK-4C**
- **Aerial or Pavement Mounted Sensors**
- **Automatic Temperature & Moisture**
- **Manual Override**
- **Wired Remote Operation & Status Panel w/ LED's**
- **Timer For Cable Protection**
- **Custom NEMA 1 Enclosures**



Orbit's RSMCK-1C Control Panel Kit

Specifications:

- Extremely Economical For **Snow Melting** Applications
- NEMA 1 UL Listed Panel Box (Indoor Rating)
- 50 Amp Capacity (One 50 Amp Contactor)
- Aerial Mounted Automatic Snow Switch
- Pre Wired And Numbered Terminal Connections
- Wired Remote Operation & Status Panel W/ LED's
- Wiring Diagram
- "Heat On" Pilot Light
- 90 Minute Hold Time
- 4 Hour Manual Override Timer



Included Remote Panel



Included Aerial Sensor



Orbit's RSMCK-2C Control Panel Kit

Specifications:

- Extremely Economical For **Snow Melting** Applications
- NEMA 1 UL Listed Panel Box (Indoor Rating)
- 100 Amp Capacity (Two 50 Amp Contactors)
- Aerial Mounted Automatic Snow Switch
- Pre Wired And Numbered Terminal Connections
- Wired Remote Operation & Status Panel W/ LED's
- Wiring Diagram
- "Heat On" Pilot Light
- 90 Minute Hold Time
- 4 Hour Manual Override Timer



Included Remote Panel



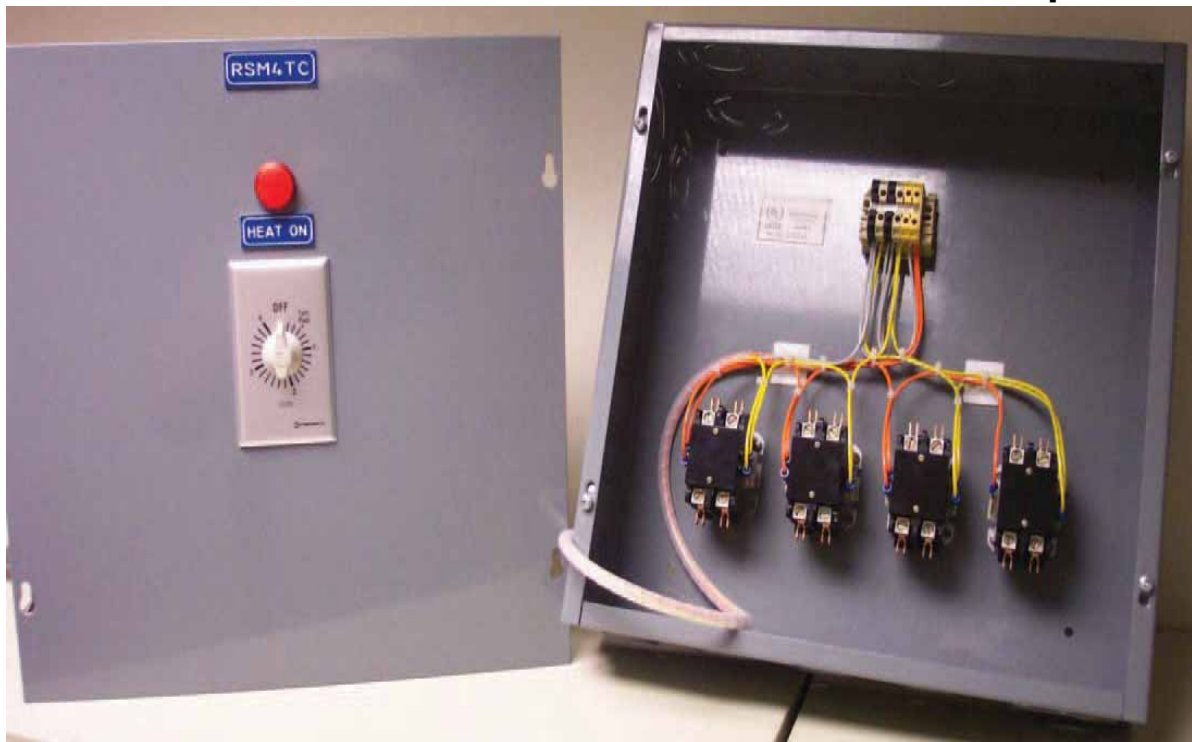
Included Aerial Sensor



Orbit's RSMCK-4C Control Panel Kit

Specifications:

- Extremely Economical For **Snow Melting** Applications
- NEMA 1 UL Listed Panel Box (Indoor Rating)
- 200 Amp Capacity (Four 50 Amp Contactors)
- Aerial Mounted Automatic Snow Switch
- Pre Wired And Numbered Terminal Connections
- Wired Remote Operation & Status Panel W/ LED's



- Wiring Diagram
- "Heat On" Pilot Light
- 90 Minute Hold Time
- 4 Hour Manual Override Timer

Included Remote Panel



Included Aerial Sensor



Orbit's RSM24V Conversion Kit

Specifications:

- Extremely Economical For **Snow Melting** Applications
- NEMA 1 UL Listed Panel Box (Indoor Rating)
- Includes Required Relays
- Transforms 120V Down To 24V
- Pavement Mounted Snow Sensor
- Pre Wired And Numbered Terminal Connections



The RSM24V Conversion Kit is designed to convert the standard RSMCK-1C, RSMCK-2C and RSMCK-4C Aerial Sensing Line Voltage Control Panels into 24 Volt control voltage panels.

Designed to work in conjunction with a Pavement Mounted Sensor, this panel is a very economical yet extremely dependable approach to applications requiring surface monitoring.



Pavement Sensor



Orbit's RSMCK-1C-DS8 Control Panel Kit

Specifications:

- Extremely Economical For **Roof & Gutter** Applications
 - NEMA 1 UL Listed Panel Box (Indoor Rating)
 - 50 Amp Capacity (One 50 Amp Contactor)
 - Aerial Mounted Automatic Snow Switch
 - Pre Wired And Numbered Terminal Connections
 - Wired Remote Operation & Status Panel W/ LED's
- Wiring Diagram
 - "Heat On" Pilot Light
 - 90 Minute Hold Time
 - 4 Hour Manual Override Timer



Included Remote Status Panel



Included Roof/Gutter Sensor



Orbit's RSMCK-2C-DS8 Control Panel Kit

Specifications:

- Extremely Economical For **Roof & Gutter** Applications
- NEMA 1 UL Listed Panel Box (Indoor Rating)
- 100 Amp Capacity (Two 50 Amp Contactors)
- Aerial Mounted Automatic Snow Switch
- Pre Wired And Numbered Terminal Connections
- Wired Remote Operation & Status Panel W/ LED's

- Wiring Diagram
- "Heat On" Pilot Light
- 90 Minute Hold Time
- 4 Hour Manual Override Timer

Included Remote Status Panel



Included Roof/Gutter Sensor



Orbit's RSMCK-4C-DS8 Control Panel Kit

Specifications:

- Extremely Economical For **Roof & Gutter** Applications
- NEMA 1 UL Listed Panel Box (Indoor Rating)
- 200 Amp Capacity (Four 50 Amp Contactors)
- Aerial Mounted Automatic Snow Switch
- Pre Wired And Numbered Terminal Connections
- Wired Remote Operation & Status Panel W/ LED's



- Wiring Diagram
- "Heat On" Pilot Light
- 90 Minute Hold Time
- 4 Hour Manual Override Timer

Included Remote Status Panel



Included Roof/Gutter Sensor



The Radiant Comfort You Deserve



Operational Sequences For RSMCK Series Snow Melt Control Panels And Sensors

RSMCK-1C, RSMCK-2C, And RSMCK-4C Control Panels

The panels are designed to allow systems drawing over 30 amps to be completely automated when using the DS-2B Snow Sensor and Indoor CDP Wired Remote Panel.

One additional feature added to this series panel is the manual override timer which allows the user to bypass the automated Snow Sensor and operate the system in a manual mode. The hold timer (located on the front of the control panel) can be manually set for a maximum of 4 hours in order to melt skim ice or drifting snow.

Another feature is the red "Heat On" light. When lit, the user knows that the system is in operation. This indicator light will also alert the user when the system has been turned on accidentally and prevent unexpected damage to the system.



RSMCK-2C (Shown)

Automated DS-2B Series Snow Sensor



DS-2B Snow Sensor

Heating cables are activated when the temperature is 38 degrees F or below and moisture is present. When the sensor detects neither of the above conditions the DS-2B remains on for a maximum period of 90 minutes by default in order to assure the melt is complete. The manual timer on the RSMCK Panel or the CDP Monitor may be used at anytime in order to override the system.

Severe Cold Pre-Heat Operation

In the event of prolonged periods of severe cold, (4 continuous days of 10-15 degrees F or below) ground temperatures can get extremely low. Orbit Radiant Heating suggests pre-heating the surface previous to any expected event. If possible, manually turn on the system using the timer 3-4 hours previous to the expected event. This will allow the system to have a "head start" in warming up the unusually cold surface. Pre-heating will help insure that the surface is properly conditioned for the maximum performance.

CDP-2 Wired Remote Monitor

The snow melting system can be monitored from inside the facility with the CDP-2 interior "wired" remote panel. This panel allows the user to control the DS-2B snow sensor and monitor the status with different colored LED lights. With the interior remote panel, the user can choose to turn the system to 'Manual On' in case of re-freeze, and also offers a 'Standby' option if needed. The 'Automatic' option allows the snow sensor to handle all detection and control of the system. The interior remote receives power directly from the snow sensor, and requires no AC Power for operation. The 'Delice On' indicator light will report that the system is on and active.



CDP Indoor Monitor

Wired Remote Panel for the operation and monitoring of Orbit automatic snow melting systems from inside the location.



Snow/Ice Melting Controls

Aerial Roof & Gutter Sensor



Residential, light commercial above ground temperature and moisture sensor w/30 Amp Control for Roof & Gutter applications. Used with the RSMCK Series control panels or stand alone.

Aerial Snow Sensor



Residential, light commercial above ground temperature and moisture sensor w/30 Amp Control for driveway & walkway applications. Used with the RSMCK Series control panels or stand alone.

24 Volt Pavement Sensor



Residential or Commercial pavement mounted temperature and moisture sensor for use with RSMCK Series control panels. 24 Volt supply.

Commercial Roof/Gutter Control



FEATURES

- Multiple sensor capability
- Remote control option
- Controls up to 10 satellite contactors
- Timed heater cycle capability
- U-L Listed, CSA Certified
- Single and three-phase power control
- Supply options: 208, 240, 277, 480 and 600 volts
- Contactor rating of 50 amps per pole
- Simple installation

Commercial Roof/Gutter Satellite Remote

FEATURES



- Contactor rating of 50 amps per pole
- Supply options: 208, 240, 277 and 480 volts
- Single and three-phase power control
- Integral 30 mA GFCI
- U-L Listed, CSA Certified
- Self-test feature
- Simple installation
- Low Cost

Commercial Roof/Gutter Sensors

FEATURES



- Minimum operating costs
- Maintains ice melting heater efficiency
- Built-in ground fault equipment protection (GFEP) for safety
- UL and CUL Listed to Standard 873
- Remote monitor and control included
- Low cost
- Simple installation