

## DELTA-THERM

# Illustrated Quick Install Guide

## RID (Remote Indicator & Activation Timer)

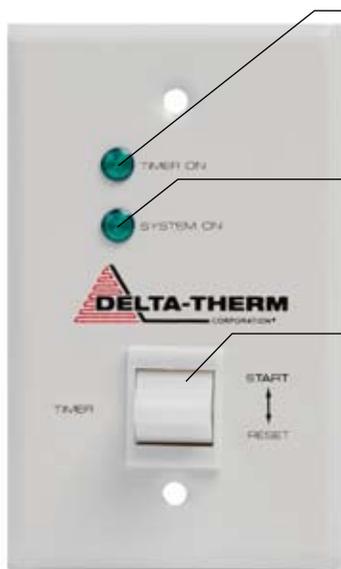
### For Snow Melt and Roof Deicing

# 1

#### Quick Reference

### RID

Remote Indicator and Activation Timer (RID).



#### TIMER ON INDICATOR

- LED will blink when the RID toggle switch is activated (start position).

#### SYSTEM ON INDICATOR.

- LED will illuminate when the sensor activates the system or the RID toggle switch has been activated (start position).

#### TIMER START/RESET SWITCH.

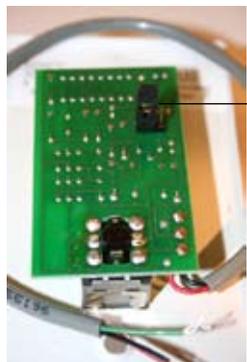
- Push the switch up to manually start the system. The system will run to the time determined by your setting of the jumper on the back of the RID panel.
- The RID reset function will only reset or turn off the system if you activated the system. If a sensor is requiring system activation and the timer reset button is pushed, the timer will stop but the system will remain on until the sensor has completed a cycle.

#### JUMPER SETTING FOR RID TIMER

Located on the back of the RID is a jumper. Refer to detail 1.

For slab snow melting the jumper should be in the left position as you face the back of the device, covering the left and center metal pins. This activates the system for approximately 5 hours. Refer to detail 2.

For roof and gutter deicing the jumper should be in the right position, covering the right and center pins. This activates the system for approximately 75 minutes. Refer to detail 3.



Detail 1 Back of RID.



Detail 2  
Jumper setting for 5 hour operation. (nominal) +/- 10%.



Detail 3  
Jumper setting for 75 minute operation. (nominal) +/- 10%.

#### DESCRIPTION

The RID is designed to attach to a standard single gang drywall ring using the two 6-32 screws provided.

- The RID has a 22 AWG three conductor pigtail which connects to the corresponding pigtail in the DTC enclosure or to the three terminals in the MPS enclosure marked GBR. GBR signifies the color of the wire to be connected, which is green, black, and red.
- 22 AWG is sufficient for up to 100 feet, larger wire sizes may be required as the distance is increased. Refer to chart on back.
- The wiring is class 2, low voltage, power is provided by the MPS or DTC system.
- The RID is powered from the DTC or MPS system.
- The RID should not be installed in a two or more gang drywall ring.

**WARNING:** This device must be installed by a qualified electrician. All assembly, installation, and test instructions must be followed. Improper installation can result in property damage, serious injury, and/or death due to electric shock. Call Delta-Therm at 1-800-526-7887 with any installation or operating questions.

# DELTA-THERM.COM

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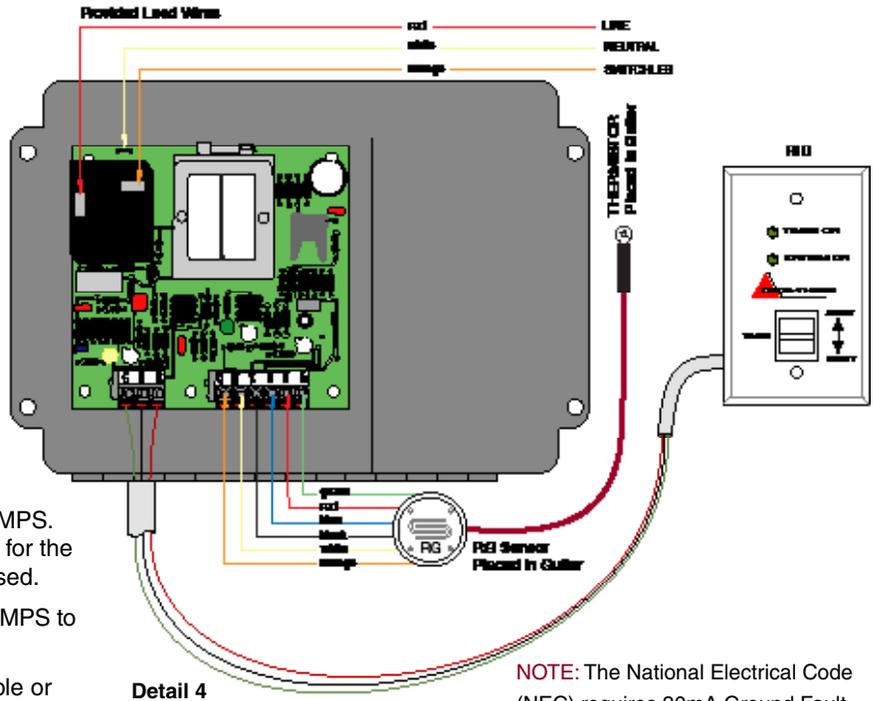
leaders in engineered heat trace

# A

## Quick Reference

### WIRING A RID TO A MPS PANEL

1. Drill a hole for a .5" (12.7mm) conduit fitting next to the RG sensor wire connector in the low voltage section of the MPS. A separate junction box will be required for the RID wire and/or if a second sensor is used.
2. Install the .5" (12.7mm) conduit from the MPS to the RID junction box.
3. Install a low voltage three conductor cable or three insulated wires (22 awg minimum) from the MPS to the RID via the conduit. Refer to detail 4.
4. Connect the red, green, and black wires of the RID to the R (red), G (green), and B (black) terminals of the MPS via the three conductors. Refer to detail 4.



Detail 4

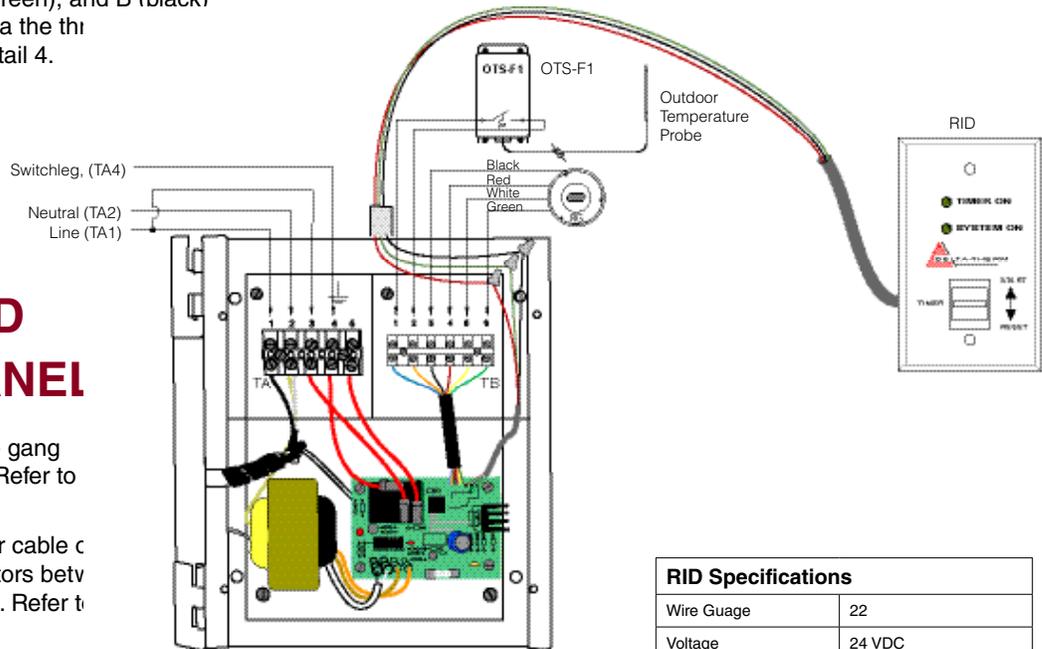
**NOTE:** The National Electrical Code (NEC) requires 30mA Ground Fault Protection Equipment (GFPE) on Roof and Gutter Deicing system, check with all local codes prior to installation. Slab Snow Melt Systems may be exempt

# B

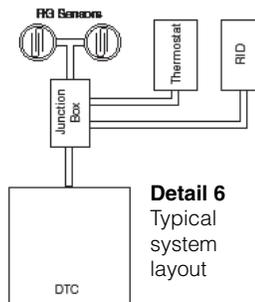
## Quick Reference

### WIRING A RID TO A DTC PANEL

1. Install a standard single gang electrical box opening. Refer to detail 6.
2. Route a three conductor cable or three individual conductors betw the RID and DTC panel. Refer to detail 5.
3. Connect the black wire of the RID pigtail to the black wire of the control unit pigtail. Connect the white wire to the white wire and the green wire to the green wire. Use a minimum of 22 AWG wire. Refer to detail 5.



Detail 5



RID Specifications	
Wire Guage	22
Voltage	24 VDC
Wire Length	12"
Dimensions	2.25"X4.25"
Box requirements	Single Gang with single gang dry wall ring.

Extension Wire Chart	
100'	22AWG
101' to 300'	16AWG
301' to 600'	14AWG
601' to 1,000'	12AWG