

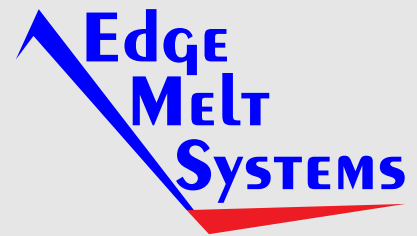
Overview

The ice dam prevention system controller DC-Flex allows for automatic operation of the Edge Melt Systems heated roof panels and heated gutter guards. The DC-Flex operates up to 4 separate branch circuits according to the temperature control values set on the digital temperature controller. A set point for heat cable on/off operation as well as a set point for low temperature cut out (LTC) of the circuits is provided. The LTC mode saves energy by keeping the heaters off when temperatures are below the threshold at which solar gain and heat loss melts snow or additional snow accumulates. Both temperature set points are easily field adjustable to suit local conditions.



Operation

The DC-Flex Controller uses a remote thermistor sensor to measure the ambient (outside) temperature. When the sensed outdoor temperature falls below the upper set point (out1), the temperature controller energizes the branch circuits. When temps rise above the upper set point the branch circuits are de-energized. If the sensed temp falls below the LTC (out2), the branch circuits are de-energized and re-energized when the temperature rises above the LTC set point. This is commonly referred to as 'window' operation and is the most efficient way to operate your heat cable system.



Specifications

Operates up to 4 separate circuits

208/240V @ up to 30 amps per circuit

Single and/or 3 phase

2 circuits are delayed to limit inrush impact

MAX control energizes heat cable circuits regardless of temperature
Useful for preseason testing

ECO control energizes the heat cable circuits when ambient temperature is between set points
Fool proof, economical control

Set points are field adjustable

Precision calibration function customizes controller to installation site

Polycarbonate enclosure measures 10" tall, 8" wide, 4" deep

NEMA Type 1 insulated enclosure (indoor installation)

UL 508A C/US