

ASD-4C, ASD-8C

CONNECT AND PROTECT

ASD Controller

OVERVIEW



The ASD-4C Controller

The nVent RAYCHEM ASD Controller is a ETL Listed ambient sensing digital unit that allows on/off operation of RAYCHEM heating cables by energizing up to four (model ASD-4C) or eight (model ASD-8C) branch circuits according to the temperature set points on the digital temperature controller. A set point for heater on/off operation as well as a set point for low temperature cutout of the circuits are provided. The Low Temp Cutout mode serves to save energy by keeping the heaters off when temperatures are so low that no snow and ice melting occurs. Both temperature set points are easily field adjustable to suit local conditions.

OPERATION

The ASD Controller uses a remote ambient temperature sensor to measure the ambient temperature. When the sensed temperature falls below the Heater On set point, the temperature controller causes the branch circuits to be energized. Conversely, when the sensed temperature raises above the Heater On set point the branch circuits are de-energized. If the sensed temperature falls below the Low Temp Cutout set point, the branch circuits will be deenergized and remain so until the ambient temperature rises back above the Low Temp Cutout set point.

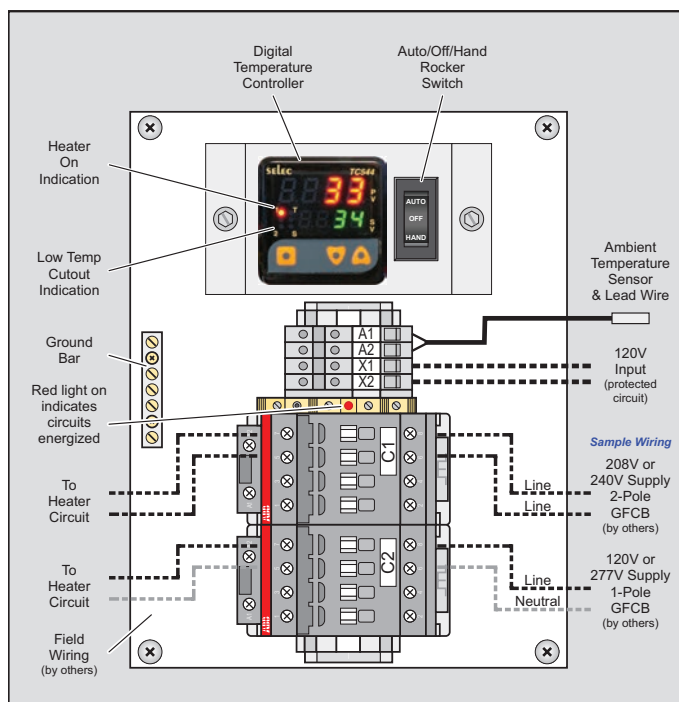
A 3-position rocker switch allows the controller to operate in automatic or hand (manual) mode, or to be turned off completely (switch set to the center off position).

On the eight-circuit model, an additional timer allows a power on delay (field-adjustable) of four of the eight branch circuits in order to reduce overall heater system peak current. The ambient temperature sensor is mounted outdoors in a shaded location representative of minimum ambient conditions, and away from any heat source, such as a utility room exhaust vent, so that the sensor gives an accurate reading of the actual ambient conditions. The sensor comes with a standard 15 ft lead, but its range can be extended up to hundreds of feet using ordinary stranded copper wire.

DESCRIPTION

The ASD Controller uses a NEMA 4X polyester outdoor enclosure with lockable hasps. Enclosure outside dimensions for each model are:

- ASD-4C: 11-1/8" h x 9-1/4" w x 5-1/4" d
- ASD-8C: 15-1/4" h x 13-1/4" w x 9-3/8" d



ASD-4C Controller Interior Layout



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