

DISPATCH SNOW MELT AC CONTROLLER

Dispatch Controlled Heat

Heat is delivered to each channel, up to 4 channels, via a dispatch controlled signal or manually at the enclosure - up to 24kW per channel.

Power to Control Multiple Turnouts

The 2 or 4 channel design provides the ability to deliver specific heat required to control multiple turnout sizes up to (4) #15 turnouts per controller.

Dramatic Energy Savings with IWS

Integration of the Intelligent Weather station will produce up to 83% energy savings over a dispatch only system. Easy attachment

An Integrated control system that assures reliable railway traffic through switch heating & running rail heating during icing and/or snow conditions.

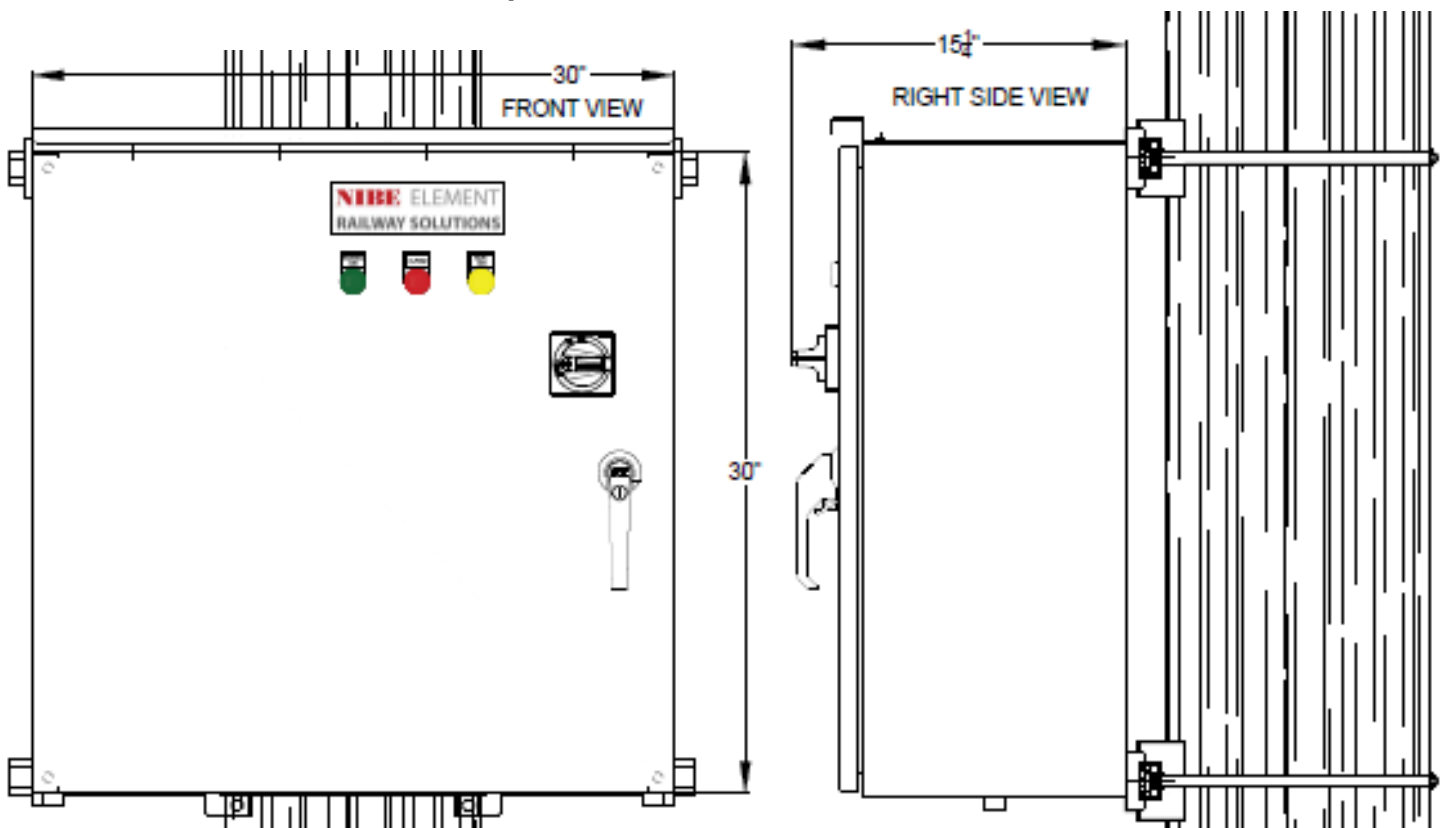
To make the system easy to maintain, errors that might occur (e.g. heating channel failure, main power loss, etc); is alarmed back to Dispatch and is visibly indicated at the controller. This makes it possible to respond proactively.

The Controller provides Ground Fault monitoring and indication.

A 200-amp main breaker is put in place to provide additional protection and ease of safe manual operation.

Several fail-safes are incorporated to secure the main purpose – keep the switch points free of snow...

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The Dispatch Snow Melt Controller enclosure manages control for switch heating and running rail heating. The cabinet is designed for the railway environment and contains all necessary electrical components to source power and protect the system.

The list below details some of the functional capability of the Dispatch Snow Melt AC Controller system:

Specifications:

- Supply power – 480VAC/200A/60Hz 1 or 3 phase. 35kA Main Circuit
- Enclosure NEMA 4 protection with door interlock disconnect switch that accepts standard Railway padlocks
- Temperature range:
-20°C - 60°C (-4°F - 140°F)
- Earth Leakage (ground Fault) monitor
- Heat Channels 480VAC/50A up to 24kW each
- Programmable Logic Controller (PLC) system
- Optically enhanced LED enclosure mounted indicators.
GREEN = Power On
RED = Alarm
YELLOW = Heat On.
- 120VAC/5A convenience ground-fault protection outlet for laptop
- Internal LED Enclosure light
- Internal Enclosure Heater

Switch Heating Control based on:

- Auto/Manual selector switch
- Dispatch signal
- Intelligent Weather Station (IWS) optional add on
 - Measured weather inputs
 - Received weather forecast

Communication:

- Heat on/off communication with Dispatch system
- Heater error alarm via local lights or signal to Dispatch

