



A new control option has been developed for use with Nelson's Type AP Series Ambient/Contactor Controlled Distribution Panels. The PAC control option is a 1/16 DIN dual display controller with a custom software algorithm that senses the current temperature and adjusts the heater cycle time based on values input for maintain and minimum ambient design conditions. When the outdoor air temperature is warmer, the heating system is energized less often. When the outdoor temperature

is colder, the heating system is energized more often. This method of control provides for a higher degree of energy savings over traditional on/off control modes. The unit is compact in size allowing mounting on the door of the enclosure and the front panel is rated NEMA 4X (IP65) providing moisture and corrosion resistance. Temperature monitoring for freeze protection applications utilize sensor inputs designed for use with Nelson's RTD-A ambient temperature probe.

SPECIFICATIONS:

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| Front Panel: NEMA 4X, IP65, Non-Hazardous | Monitoring Input: 3-wire, platinum, 100Ω, RTD |
| Supply Voltage: 100-240VAC, ±10%, 50/60Hz | Control Relay: Form C, 2.0A@250VAC |
| Power Requirements: 7.0VA Max. | Alarm Relay: Form C, 2.0A@250VAC |
| Ambient Operating Temperature: +32 to +149°F | Electrical Life: 100,000 Cycles at Rated Current |
| Ambient Storage Temperature: -40 to +185°F | Cycle Time: 10-120 minutes |
| Relative Humidity: 0-90% Non-Condensing | Minimum Power On Time: 5-60 minutes |

ORDER INFORMATION:

| AP Option Suffix | Description |
|------------------|-------------------------------------|
| -PAC | Proportional Ambient Control Option |

This option requires a sensing probe such as Nelson's RTD-A ambient sensing RTD probe assembly. Order separately.

Nelson Heat Tracing Systems products are supplied with a limited warranty. Complete Terms and Conditions may be found on Nelson's website at www.nelsonheaters.com.

