

Natural Ventilation Control

Model: NVC-2

Effective curtain machine and heater control

The Natural Ventilation Control automatically controls the temperature in a room by operating a curtain machine and heater or furnace according to your programmed settings.

Controlling a curtain machine

- When the temperature is within the idle band, the NVC-2 maintains the curtain position.
- When the temperature rises above the idle band, the NVC-2 opens the curtain for the on duration and then pauses for the off duration.
- After each off duration, the NVC-2 checks the temperature and then either opens or closes the curtain, depending on the temperature.

Controlling a heater

When the temperature is below the heat set point, the NVC-2 switches the heater on; when it is above the set point, the NVC-2 switches the heater off.

Features

- Automatic temperature-based control
Range: -13 to 125°F (-25 to 51°C)
- Six-step growth curve
- Programmable ON and OFF durations for the open and close relays
1 to 900 seconds (up to 15 minutes)
- Programmable Idle band
1.0 to 10.0°F (0.6 to 5.5°C)
- Programmable heater hysteresis
0.3 to 5.0°F (0.2 to 2.8°C)
- Programmable high and low temperature alarms
- Two curtain relays (one open, one close)
- Heater control relay
- Alarm relay (for external alarm system)
- Four-button keypad
- Four-digit LED display
- Programming and status LEDs
- Manual override and test modes
- Power-failure settings protection
- Six-foot temperature probe, extendable to 500 feet
- Optional rain sensor
- NEMA 4X enclosure (corrosion resistant, water resistant, and fire retardant)
- cCSAus approval
- Limited warranty (2 years)



Electrical ratings

- **Input** 85 to 264 VAC, 50/60 Hz
- **Open/close/heat relays** 15 A at 120/230 VAC, general-purpose (resistive)
1/2 HP at 120 VAC, 1 HP at 230 VAC
- **Alarm relay** 0.4 A at 125 VAC, 2.0 A at 30 VDC, resistive load
0.2 A at 125 VAC, 1.0 A at 30 VDC, inductive load

Accessories

Phason Rain Sensor

The Phason Rain Sensor (**model PRS**) detects rainfall and allows you to automatically close curtains and actuators when it is raining.

How it works

When the Phason Rain Sensor detects rainfall, it sends a signal to the control. When the control receives the signal, it closes the configured curtains and/or actuators. After 15 minutes with no detected rainfall, the sensor signals the control to resume normal operation.

Manual Override Box

The Manual Override Box (**model MOB-4**) increases the load handling capability of your control's relays and provides an external disconnect. The MOB-4 includes four 240 V power contactor relays with AUTO-OFF-MANUAL switches and snubber filters. The actuator override kit (**model KMOB4-ACTUATOR**) adapts two of the switch and relay pairs to manually open and close actuators or curtain machines.

Temperature probes

Additional Temperature probes allow you to use 4-zone temperature averaging. Probes are available several lengths and can be extended up to 500 feet using extension cable.



Additional information

For more information about the Natural Ventilation Control, accessories, or other Phason products, contact your dealer or visit www.phasoncontrols.com.