

## Natural Ventilation Control

Model: NVC-2

### Effect of curtain machine and heater control

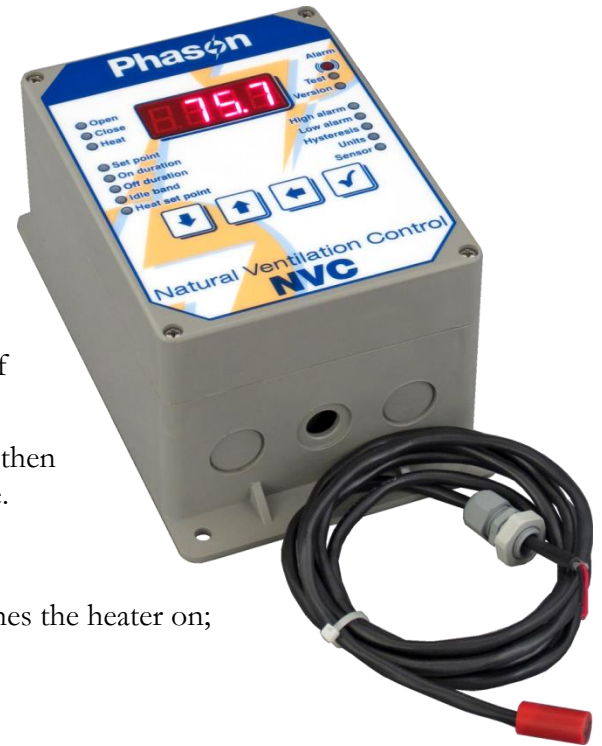
The Natural Ventilation Control automatically controls the temperature in a room by operating a curtain machine and heater or furnace according to your programmed settings.

#### 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.

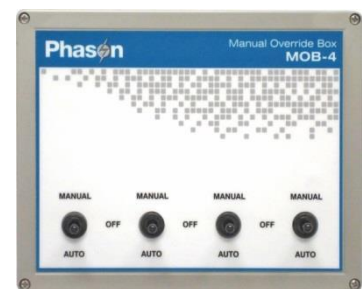
#### How it works

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.phason.ca](http://www.phason.ca).