

Dual Natural Ventilation Control

Model: NVC-DUAL

Effective control of two curtain machines

The Dual Natural Ventilation Control (NVC-DUAL) is a fully programmable controller that provides extensive flexibility for your curtain or awning control needs. The NVC-DUAL automatically controls the temperature in a room by operating two curtain machines or actuators according to your programmed settings.

Controlling a curtain machine

- When the temperature is within the **Idle band** of the **Set point**, the NVC-DUAL maintains the curtain position.
- When the temperature rises above the **Idle band**, the NVC-DUAL opens the curtain for the **On duration**, and then pauses for the **Off duration**.
- After each **Off duration**, the NVC-DUAL checks the temperature and then either opens or closes the curtain (for the preset duration), depending on the temperature.



Features

- Automatic temperature-based control
Range: -13 to 125°F (-25 to 51°C)
- Programmable ON and OFF durations
Range: 1 to 900 seconds (up to 15 minutes)
- Programmable Idle band
Range: 1.0 to 10.0°F (0.6 to 5.5°C)
- Rain override (requires the optional rain sensor)
- Programmable high and low temperature alarms
- Alarm relay (for external alarm system)
- 4 curtain relays: 2x open, 2x close
- Programming and status LEDs
- Manual override and test modes
- 6-foot temperature sensor extendable to 500 feet
- NEMA 4X enclosure (corrosion resistant, water resistant, and fire retardant)
- cCSAus approval
- Limited warranty (2 years)

Optional rain override

The optional Phason Rain Sensor allows to override normal operation when it is raining. When the 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.

Electrical ratings

- **Input** 85 to 264 VAC, 50/60 Hz
- **Open/close 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.



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.