

CC200 Expansion Module Hardware and Wiring

Quick Start Guide

Overview



CC200



CC200 Expansion Module

The CC200 Expansion Module is built with the necessary onboard IO to add additional IO for modular coil case designs or multi-evaporator walk-in boxes.

- One TRIAC for control of PWM (pulse width modulation) EEV valve or one stepper motor control for EEPR stepper or EEV stepper.
- One digital input: user-configurable purposes.
- One pressure input for suction pressure transducer.
- Three color-coded temperature inputs for discharge air, return air, and defrost termination plus coil out temperature.
- Expansion port connector for easy connection to CC200 Main Controller.

Specifications

Power	Powered From Expansion Port of CC200 Main Controller
Ambient Operating Temperature	14°F to 122°F (-10°C to 50°C)
Storage Temperature	-40°F to 185°F (-40°C to 85°C)
Relative Humidity	20-85% RH; non-condensing
Power Supply	24VDC, max 20W PELV (Class 2 Source)
Enclosure	Type: 4 DIN Rail Mountable Rating: UL 94V-0
Dimensions	110mm x 183mm (4 5/16" x 7 3/16")
Purpose of Control	Operating Control
Construction of Control	DIN rail mounting control to be incorporated in <i>Class I</i> or <i>Class II</i> appliances
Rated Impulse Voltage	2500V
Pollution Degree	2
Over-voltage Category	II
Type of Action	1.C
Pulse Valve TRIAC	24/120/230VAC, 20W Max
Unipolar Valve	12VDC, max 330mA/Phase (Class 2 circuit)
Bipolar Valve	12VDC, max 800mA (Class 2 circuit)

Mounting and Installation

Step 1: Determine if you need an Expansion Module.

- a. An Expansion Module should be added for a second or third coil. Each coil will have temp sensors and a transducer and will be wired to the respective Expansion Module.

Step 2: Addressing the Expansion Module.

- a. Set the address of each Expansion Module using the ON/OFF dip switch bank on the top left corner of the hardware.
- b. Expansion Module one must be set to address 1 (Position 1 up), Expansion Module two to address 2 (Position 2 up), Expansion Module three to address 3 (Positions 1 and 2 up).

Step 3: Install the Expansion Module.

- a. Make sure power is OFF to the CC200 Main Controller. Power will be restored in a later step.
- b. Install Expansion Module 1 on the DIN rail adjacent to the CC200's right side. The CC200 Expansion port terminals V+, V-, LAN+ and LAN- will be aligned with Expansion Module 1 Expansion port terminals. Slide the Expansion Module into the CC200 Expansion port so both device's Expansion port connectors fasten together.
- c. If Expansion Modules 2 and 3 are present, connect to Expansion Module 1's Expansion port using the same manner described in the above step.

No wiring is needed between the CC200 Main Controller and CC200 Expansion Module. Power and communication are sourced from the CC200 Expansion port and passed through each Expansion Module Expansion port.

Step 4: Terminate sensors on the Expansion Module and refer to the drawing and specifications in the CC200 manual for terminal numbers and how to terminate.

- a. Once all sensor terminations are complete and the Expansion Module Expansion port is securely plugged into the CC200 Expansion port, restore the 24VDC supply power to the CC200 Main Controller. Once connected, the Expansion Module PWR ON LED will illuminate green indicating supply power is present.

For the full user manual, scan the QR code:

