PRODUCT DATA SHEET

ClimaVision Central Control Unit

A wall-mounted system manager that provides in-depth, real-time insight and control.



- Local User Interface to system
  - View space temperatures and equipment operating conditions
  - Make scheduling and setpoint adjustments
  - Manage alerts with severity color coding
- Wi-Fi Gateway to Cloud
- Wireless Commissioning Tool
- VVVT/VAV Air Source Equipment Controller
- Gateway to third-party devices or BAS

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ClimaVision Central Control Unit

What do you get when you combine a state-of-the-art control supervisor and an applied equipment controller? Answer: the ClimaVision Central Control Unit (CCU), a removable wall-mounted tablet, on-site user interface for building management, and gateway to the ClimaVision cloud.

Customers appreciate real-time data visualization, zone and equipment-specific performance and status. The elegant and modern design snaps easily and securely into place with a spring-based locking slider.



OVERVIEW

The Central Control Unit (CCU) is a wall-mounted communication gateway. It connects ClimaVision terminal devices via the local 900 MHz wireless mesh network and connects to Modbus devices via RS485. The data it collects from these devices is then sent to the ClimaVision cloud with a Wi-Fi or LAN connection.

The CCU also acts as a zoned AHU controller or optimization extension. It aggregates all the terminal zone data to make more informed decisions about how and when to activate the system AHU.

KEY FEATURES

- Controls air sources for VVT and VAV systems.
- Up to 48 terminal equipment modules per Central Control Unit.
- Proactive, predictive control in conjunction with Carrier cloud servers; operates connected to the ClimaVision cloud or standalone without an internet connection.
- Intuitive 8” Android-based user interface
- Acts as a gateway to third-party devices and building automation systems via BACnet or Modbus.

ADDITIONAL FEATURES

- Powerful MT8163, quad core processor with 2GB RAM and 32 GB Flash Memory
- Easy mobile pairing, configuration and settings setup.
- Status of zones and ability to adjust parameters
- Schedule and setpoint adjustments
- Alerts with severity color coding

COMPATIBLE APPLICATIONS

- VVT
- VAV
- Outside Air Optimization (Economizer) with Smart Node
- VVT Bypass Control Director

INCLUDED

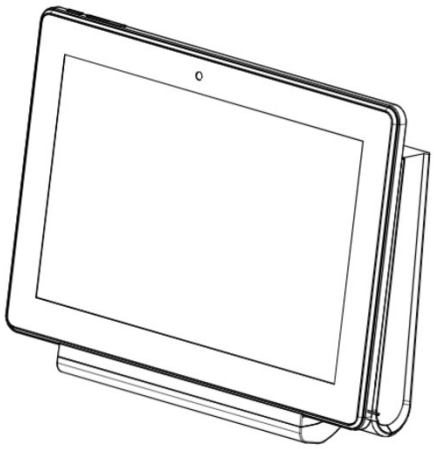
(1) Central Control Unit

(1) Control Mote Board



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ClimaVision Central Control Unit



MECHANICAL

Dimensions	8.2” x 5.7” x 0.5” (208.5mm x 145mm x 11.5 mm)
Mounting	(2) #8 screws over standard electrical junction box
Screen	8” display, 1200 x 800
Operating Temp	32°F to 122°F (0°C to 50°C)
Termination	Common Pogo Pin termination for USB port and +5V DC power
Microprocessor	Processor MT8163, quad core, 64-bit, Cortex – A53, 1.3GHz
HVAC Control	Up to 5 stages of heating/cooling, up to 5 fan stages, 0-10V modulating output for heating/cooling valves (no VFD), and a dehumidifier or humidifier

WALL PLATE

Dimensions	7.96” x 5.1” x 1.02” (202.16mm x 129.29 mm x 25.87mm)

I/O

Inputs	A. (2) 0-10V analog inputs B. (2) 10k thermistor inputs
Outputs	C. (4) 0-10V or 4-20V mA analog outputs D. (7) 24V DC/1A relays

ELECTRICAL

Supply	24V AC/DC
Consumption	5 VA (typical), 10 VA (max)
Battery	3.7V, 2500mAH, Lithium Polymer

COMMUNICATIONS

Bluetooth	BLE 4.1 used for pairing devices (e.g. ClimaVision Smart Node equipment control)
Mesh	900 MHz IEEE 802.15.4-compliant; used for device communication on mesh network
Wired	3-wire sensor bus to wall sensors 4-wire RS-485 port for Modbus or BACnet
Wi-Fi	Wi-Fi to connect to internet

