
Room Controller

VT7200 Communicating and Network Ready Controllers

Technical Cut Sheet

Smart energy management has never been easier than with the VT7200 series. Designed for new construction or retrofit projects, the controllers dramatically decrease total costs by reducing installation time, configuration and commissioning time. The VT7200 series provides the advanced features and monitoring functions required by modern building automation systems without the use of software and commissioning tools.



VT7200 Room Controller Features



Introduction

Smart energy management has never been easier than with the VT7200 series. Designed for new construction or retrofit projects, the controllers dramatically decrease total installed costs by reducing installation, configuration and commissioning time. The VT7200 series provides the advanced features and monitoring functions required by modern building automation systems without the use of software and commissioning tools.

The VT7200 series zone controllers are specifically designed to control on-off, floating or 0 to 10 Vdc heating or cooling terminal equipment such as pressure dependent VAV's, valves or other devices.

Open protocol design provides network compatibility to BACnet® MS/TP, LonWorks® and Wireless ZigBee® Pro network systems. Our Network Ready “stand-alone” versions can be upgraded with optional communication modules which enable the controllers to be integrated into most building automation systems as building requirements change.

All models can be customized with PIR motion sensor functionality via an optional PIR accessory cover. The cover can be installed in the field or ordered as a factory installed option. This provides advanced occupancy routines and automatic energy savings during occupied periods without sacrificing occupant comfort.

VT7200 zoning controllers offer a cost-competitive product that increases occupant comfort while reducing customer energy costs and accelerating return on investment.

Product Highlights

- Open protocol allows for easy integration into most network systems
- Network Ready models can be retrofit with optional communication modules
- One simple wall mounted device to install, wire and commission
- Intuitive “thermostat like” interface
- Application specific controllers can be configured to meet most applications
- No special software required for configuration
- Fully embedded local configuration utility
- Advanced occupancy and monitoring functions through factory or field installed PIR cover



AT A GLANCE

Custom design

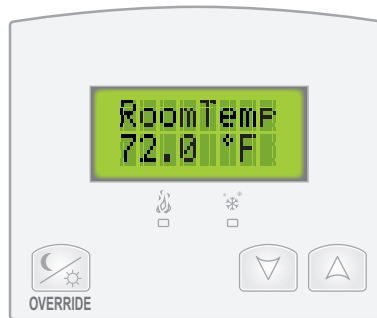
- Advanced occupancy functions
- Equipt for optional PIR cover
- 3 configurable inputs
- Pre-configured sequences of operation
- Unique configuration setup utility
- Lockable keypad
- Available for 24 Vac On/Off, Floating or Analog control
- Auxiliary output
- Discharge air sensor
- Intuitive menu-driven programming

Options and accessories

- Available with various open industry standards communication adapters

VT7200 Room Controller Applications

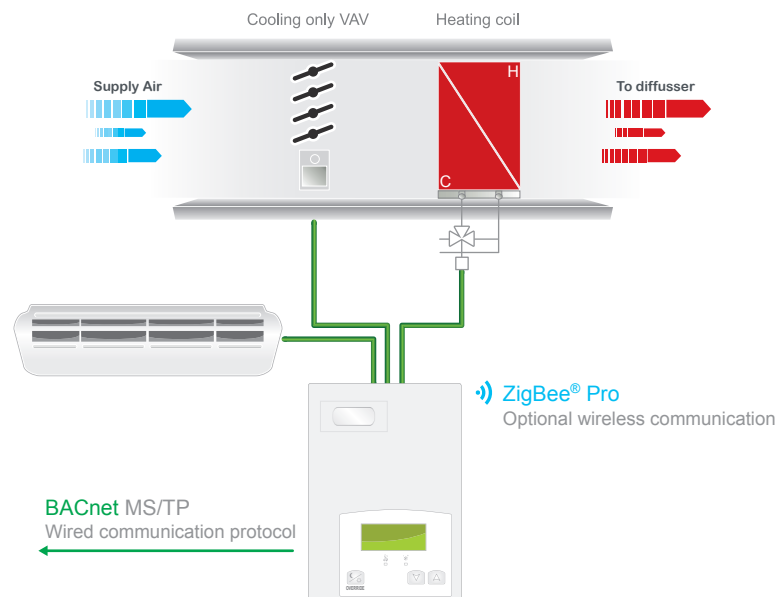
SIMPLIFIED HMI



Common Applications

- Cooling only VAV zone with reheat
- Fin-tube radiators
- Cabinet heaters
- Radiant panel heaters
- Electric re-heat zones
- Pressure dependent VAV system
- Terminal reheat

TYPICAL APPLICATION



VT7200 Room Controller Specifications

Specifications

Dimensions

12.5cm/4.9in (H) x 8.6cm/3.38in (W) x 2.9cm/1in (D)

Power Requirements

19-30Vac, 50/60 Hz; 2 VA (RC & C) Class 2

Operating Conditions

0 °C - 50 °C (32 °F - 122 °F)

0% - 95% R.H. non-condensing

Storage Conditions

-30 °C - 50 °C (-22 °F - 122 °F)

0% - 95% R.H. non-condensing

Temperature Sensor

Local 10 K NTC thermistor

Temperature Sensor Resolution

± 0.1 °C (± 0.2 °F)

Temperature Control Accuracy

±0.5 °C (± 0.9 °F) @ 21 °C (70 °F) typical calibrated

Occ, Stand-by and Unocc Cooling Setpoint Range

12.0 - 37.5 °C (54 - 100 °F)

Occ, Stand-by Unocc Heating Setpoint Range

4.5 °C - 32 °C (40 °F - 90 °F)

Room and Outdoor Air Temperature Display Range

-40 °C - 50 °C (-40 °F - 122 °F)

Proportional Band for Room Temperature control

Cooling & Heating: 1.8°C (3.2°F)

Binary Inputs

Dry contact across terminal BI1, BI2 & UI3 to Scom

Contact Output Rating

Triac output: 30 Vac, 1 Amp. Maximum,

3 Amp. in-rush

Analog: 0 to 10 Vdc into 2KΩ resistance min.

Wire Gauge

18 gauge maximum, 22 gauge recommended

Approximate Shipping Weight

0.75 lb (0.34 kg)

Agency Approvals All Models

UL: UL 873 (US) and CSA C22.2 No. 24 (Canada), File E27734 with CCN XAPX (US) and XAPX7 (Canada)

Industry Canada: ICES-003 (Canada)

FCC: Compliant to CFR 47, Part 15, Subpart B, Class A (US)

CE: EMC Directive 89/336/EEC (Europe Union)

C-Tick: AS/NZS CISPR 22 Compliant (Australia / New Zealand) Supplier Code Number N10696

Agency Approvals Wireless Models

FCC: Compliant to: Part 15, Subpart C

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.



Check with your local government for instruction on disposal of these products.



Ordering information

VT7200 00

Control output type:

- C = Floating or on/off digital control outputs
- F = Analogue 0 - 10 VDC control outputs

PIR options:

- 50 = PIR ready but PIR cover not included
- 55 = Factory assembled with PIR cover

Communication options:

- B = BACnet® MS/TP
- E = LonWorks®
- P = ZigBee Pro wireless
- W = ZigBee® wireless
- = Network ready

* Some part number configurations may not be available.

Example:

VT7200F5000W

- Zone Control
- Analogue 0 - 10 VDC outputs
- PIR ready
- ZigBee wireless