VTR8300 Series Installation Guide

Room Controller with Optional PIR sensor Commercial and Hotel/Lodging HVAC Fan Coil Applications



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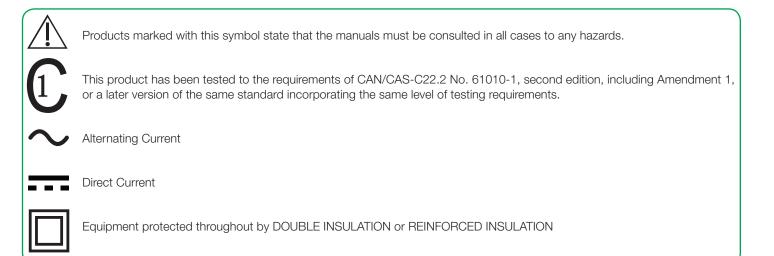
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DISCLAIMERS

- The VTR8300 series Room Controller is only to be used in conjunction with the VC3000 line voltage switching relay pack. Together they are used as operating controls for high voltage fan coil units.
- If replacing an existing Line Voltage FCU Controller, label the wires before removal of the Room Controller.
- Electronic controls are static sensitive devices. Discharge yourself correctly before manipulating and installing the Room Controller. A short circuit or wrong wiring may permanently damage the Room Controller or equipment.
- All VTR8300 series Room Controllers are designed for use as operating controls only and are not safety devices. These instruments have undergone rigorous tests and verification prior to shipping to ensure proper and reliable operation in the field. Whenever a control failure could lead to personal injury and/or loss of property, it becomes the responsibility of the user/installer/electrical system designer to incorporate safety devices such as relays, flow switches, thermal protections, and/or an alarm system to protect the entire system against any catastrophic failures. Tampering with the devices or unintended application of the devices results in a void of warranty.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- These devices are not serviceable and must be returned to the supplier for any repair.
- A switch or circuit breaker must be installed. It must be suitably located, easily reached, and marked as the disconnecting device
- Never apply more than 9VDC to Room Controller.
- This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

IMPORTANT SYMBOLS





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VC3000 Relay Pack

H1P 3K9

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INSTALLATION

Location

- Do not install on outside wall.
- Do not install in areas with direct heat source.
- Do no install near any air discharge grill.
- Do not install in areas exposed to direct sunlight.
- Ensure Room Controller has sufficient air circulation.
- Ensure wall surface is flat and clean.

Installation

- 1. Open unit by pulling on bottom side of Room Controller (Figure 1).
- 2. Read FCC ID and IC label installed in cover before installing any wireless product.
- 3. Ensure correct side of base faces up.
- 4. Pull cables 6in (15cm) out from wall.
- 5. Align base and mark location of two mounting holes on wall (Figure 2).
- 6. Install anchors in wall.
- 7. Insert cable in central hole of base.
- 8. Insert screws in mounting holes on each side of base.
- 9. Strip each wire 1/4in (0.6cm) from end.
- 10. Insert each wire according to wiring chart (next page).
- 11. Gently push excess wiring back into hole.
- 12. Gently align cover to top of base and snap in place from bottom (Figure 3).
- 13. Install security screw.
 - If replacing an existing Line Voltage FCU Controller, label the wires before removal of the controller.
 - Electronic controls are static sensitive devices. Discharge yourself properly before manipulating and installing the Room Controller.
 - A short circuit or wrong wiring may permanently damage the Room Controller or the equipment.
 - All VTR8300 series Room Controllers are designed for use as operating controls only and are not safety devices. Tampering with the devices or unintended application of the devices will result in a void of warranty. This transmitter must be installed to provide a separation distance of at least 4in (10cm) from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

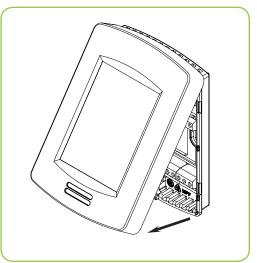


Figure-1 Open the cover

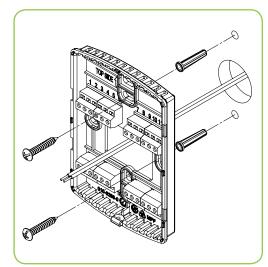
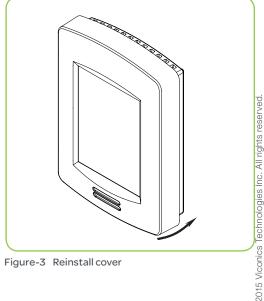


Figure-2 Install the base



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Figure-3 Reinstall cover

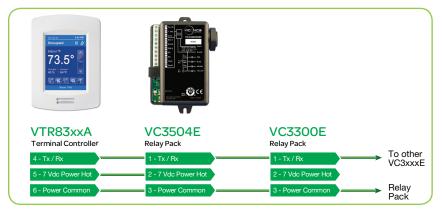
TERMINAL, IDENTIFICATION AND FUNCTION

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All VTR83xxA Terminal Equipment Controller	
Tx – Rx Communication	
Power Hot 7.0 VDC	
Power Common	
BACnet +	
BACnet -	
BACnet REF	
BI 1 (Configurable)	
Bl 2 (Configurable)	
Scom	

NOTE: never use any terminal not mentioned in above table.

COMMUNICATION WIRING TO VC3XXXE RELAY PACK



BACnet[®] Communication Shielded Wiring (if required)



NOTE: See VTR8300 BACnet® integration manual for more details

Network Wiring Topology



Only ONE VC3xxxE Relay Pack with remote monitoring inputs can be used under a single VTR83xxA Controller. All other slave units must be VC3xxxE Relay Pack(s) WITHOUT remote inputs. A maximum of 10 VC3xxxE Relay Packs can be used for a single VTR83xxA Room Controller.

From VTR83xxA to first VC3xxxE Relay Pack

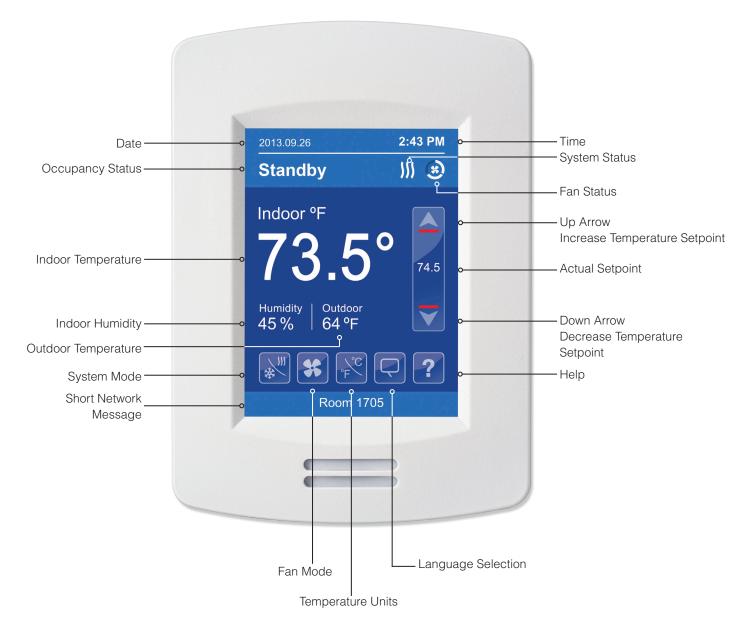
- Uses existing or new field wires
- A minimum of 3 wires are required 14-22 Ga, Solid or Stranded, shield not necessary

From first VC3xxxE to all other slave VC3xxxE Relay Pack(s)

- Uses existing or new field wires
- A minimum of 2 wires are required 14-22 Ga, Solid or Stranded
- Shield not necessary
- Connect only two wires: Tx/Rx (1) and Power Common (3).

HOME SCREEN DISPLAY

Hospitality User Interface Shown



Note: User HMI is configurable and allows display functions such as Date, Time, Humidity, Outdoor Temperature, Setpoint, and others to be enabled or disabled by setting various parameters.

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HOW TO ENTER SETUP SCREEN

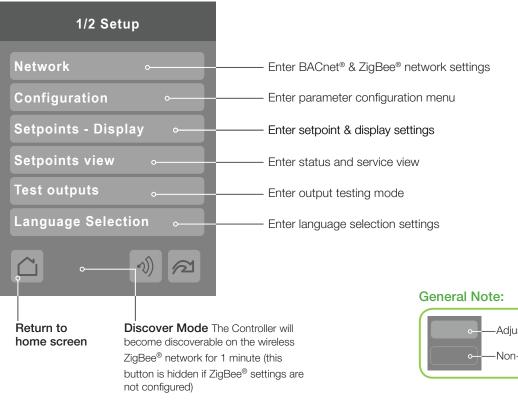
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Touch and hold this point for 3 seconds to enter setup mode

Note: If a configuration / installer password is activated to prevent unauthorised access to the configuration menu parameters, a password entry prompt will appear to prevent access to the device configuration components.

SETUP SCREEN DISPLAY



Adjustable parameter Non-adjustable parameter

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