



# VC7000 Series Accessory Communication Module Installation Guide

For VT(R)7000 Series Controllers

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## NOTICE

### IMPORTANT NOTICE RELATED TO PRODUCT PART NUMBERS

For the latest model and part numbers, please refer to "VT8000 and VT7000 Series Room Controllers Catalog, version 10" (028-6100-08), which can be found on <http://www.viconics.com/>.

This document contains information on active and retired products. The latter are no longer sold by Viconics Technologies or its partners.

For additional information on 7000 Series Room Controllers and a list of replacement part numbers, please visit <http://www.viconics.com/>.

**Failure to follow these instructions can result in confusion or order delays.**



# SAFETY INFORMATION

## Important Information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain it. The following special messages may appear throughout this bulletin or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of either symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

### **DANGER**

**DANGER** indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

### **WARNING**

**WARNING** indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

### **CAUTION**

**CAUTION** indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

### **NOTICE**

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this signal word.

## Please Note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

# BEFORE YOU BEGIN

## Loss of Control

### WARNING

#### LOSS OF CONTROL

- The designer of any control scheme must consider the potential failure modes of control paths and, for certain critical control functions, provide a means to achieve a safe state during and after a path failure. Examples of critical control functions are emergency stop and over travel stop.
- Separate or redundant control paths must be provided for critical control functions.
- System control paths may include communication links. Consideration must be given to the implications of anticipated transmission delays or failures of the link.<sup>1</sup>
- Each implementation of equipment utilizing communication links must be individually and thoroughly tested for proper operation before being placed into service.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

## California Proposition 65

### WARNING

#### CALIFORNIA PROPOSITION 65

This product can expose you to chemicals including Lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Failure to follow these instructions can result in birth defects or other reproductive harm.**

## Electrostatic Discharge

### NOTICE

#### STATIC SENSITIVE COMPONENTS

Circuit boards and option cards can be damaged by static electricity. Observe the electrostatic precautions below when handling controller circuit boards or testing components.

**Failure to follow these instructions can result in equipment damage.**

Observe the following precautions for handling static-sensitive components:

- Keep static-producing material such as plastic, upholstery, and carpeting out of the immediate work area.
- Store static-sensitive components in protective packaging when they are not installed in the drive.
- When handling a static-sensitive component, wear a conductive wrist strap connected to the component or drive through a minimum of 1 megohm resistance.
- Avoid touching exposed conductors and components leads with skin or clothing.

<sup>1</sup> For additional information about anticipated transmission delays or failures of the link, refer to NEMA ICS 1.1 (latest edition), *Safety Guidelines for the Application, Installation, and Maintenance of Solid State Control* or its equivalent

## Installation

### NOTICE

#### INSTALLATION

- The system must be installed correctly by a qualified technician.
- If replacing an existing Room Controller, label wires before removal of Controller.
- Electronic controls are static sensitive devices. Discharge yourself correctly before manipulating and installing Room Controller.
- A short circuit or wrong wiring may permanently damage Room Controller or equipment.
- All 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 switch, thermal protections, etc.) and/or an alarm system to protect the entire system against such catastrophic failures. Tampering with the devices or unintended application of the devices will result in a void of warranty.
- This device must be installed to provide a separation distance of at least 8in (20cm) from all persons and must not be located or operating in conjunction with any other antenna or transmitter.
- Refer to the Room Controller User Interface Guide for information on how to configure the Room Controller.

**Failure to follow these instructions can result in equipment damage.**

## Location

### NOTICE

#### LOCATION

- Do not install on an exterior wall.
- Do not install behind a door.
- Do not install in areas with direct heat source.
- Do not install near any air discharge grill.
- Do not install in areas exposed to direct sunlight.
- Ensure Room Controller has sufficient natural air circulation.
- Ensure wall surface is flat and clean.
- Ensure external thermal sensor wirings are away from noisy electrical sources.
- Install 1.3 to 1.5 meter (52 to 60 inches) above the floor.
- Perform preventive maintenance on the damper and Variable Air Volume (VAV) box, according to the supplier documentation.

**Failure to follow these instructions can result in equipment damage.**

## Cleaning the Room Controller

### NOTICE

#### CLEANING THE ROOM CONTROLLER

- Use a soft, pre-moistened lint-free cloth for cleaning.
- Avoid getting moisture in openings.
- Do not spray anything directly on the Room Controller or use compressed air.
- Do not use caustic/corrosive products, ammonia, solvents or any cleaning product containing alcohol or grit.
- Never use tools directly on the touchscreen.
- Never use paint on the Room Controller.
- Do not drop or crush the Room Controller, or allow it to come into contact with liquids.
- Do not use a damaged device (such as one with a cracked screen).

**Failure to comply with these recommendations will result in damage to the unit and void the manufacturer's warranty.**

# DESCRIPTION

All current “Network Ready” Viconics VT(X)7000 ( 5000 Series ) controllers purchased after July 2010 are capable of being retrofit in the field with accessory communication adapters that enables the controllers to be integrated into virtually all leading building automation system.

This approach allows the flexibility to add network communication strategies as budgets allow or as the buildings needs change.

The manufacturing date is identified inside the controller on a small label which also contains the part number. The format of the date code is year / week. If in doubt, please contact the factory for assistance. Always verify the manufacturing date code of all thermostats before ordering any communication modules.

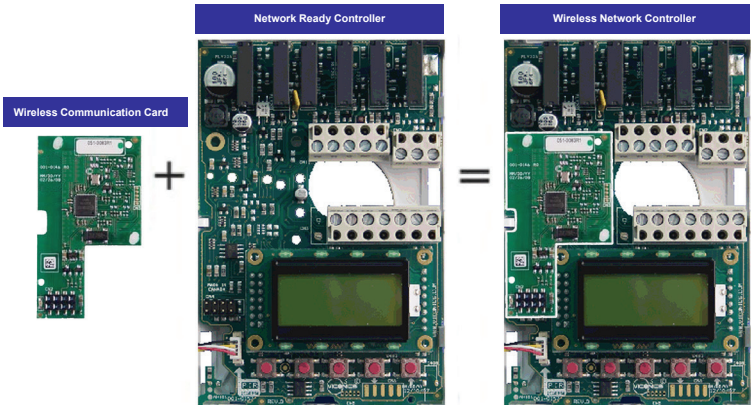
Ex.: VTR7355A5500, date code is 1115 manufactured in 2011 during the 15th week of the year at the beginning of April.



If required, Network Ready ( Stand-Alone ) Terminal Equipment Controllers can be field retrofitted with the following communication adapters

# MODELS AVAILABLE

MODEL	DESCRIPTION
VCM7000V5000W	Wireless Retrofit Communication Card for all VT7000 & VTR7000 Series
VCM7000V50xxP	Wireless Retrofit Communication Card for all VT7000 & VTR7000 Series
VCM7300V5000B	BACnet Retrofit Communication Card for all VT7200 & VT7300 Series
VCM7600V5000B	BACnet Retrofit Communication Card for all VT7600 Series
VCM7607V5000B	BACnet Retrofit Communication Card for all VT76x7 with RH
VCM7300T5000B	BACnet Retrofit Communication Card for all VTR7300 Series
VCM7300V5000E	Echelon Retrofit Communication Card for all VT7200 & VT7300 Series
VCM7600V5000E	Echelon Retrofit Communication Card for all VT7600 Series
VCM7607V5000E	Echelon Retrofit Communication Card for all VT76x7 with RH



## INSTALLATION

Remove the security screw on the bottom of Terminal Equipment Controller cover.

- Open unit by pulling on the bottom side of Terminal Equipment Controller (fig. 1).
- Remove power to the unit by disconnecting to top left terminal block.
- Ensure power is down by confirming the local display is not operating.

### Module Installation

1. Align module connector and the 2 retaining pins on their respective insertion points of the controller base.
2. Insert connector and the 2 retaining pins all at once by pressing on the 3 location simultaneously. (fig. 2).
3. Make sure retaining pins are properly snapped in place.
4. A misalignment of the module connector while the controller is powered may permanently damage the Terminal Equipment Controller or the communication module
5. Power back the unit by reconnecting the top left terminal block.
6. Re-install the cover (top side first)
7. Re-install security screw

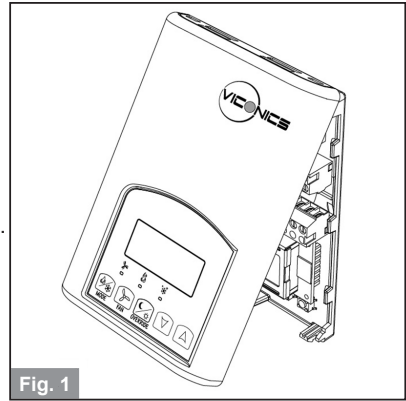


Fig. 1

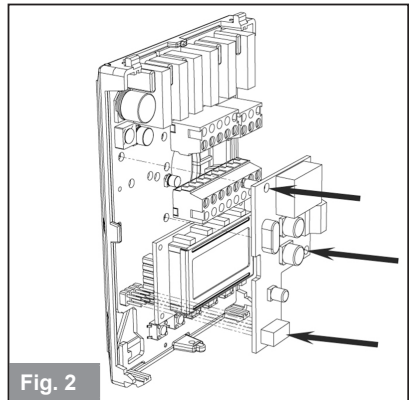


Fig. 2



- A misalignment of the module connector while the controller is powered may permanently damage the Terminal Equipment Controller or the communication module.

## SPECIFICATIONS

- Operating conditions:..... 0 °C to 50 °C ( 32 °F to 122 °F )  
0% to 95% R.H. non-condensing
- Storage conditions:..... -30 °C to 50 °C ( -22 °F to 122 °F )  
0% to 95% R.H. non-condensing
- 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)
- Agency Approvals all models:..... **FCC:** Compliant to CFR 47, Part 15, Subpart B (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



### Viconics Electronics Inc.

7262 Marconi Street | Montreal | Quebec | Canada | H2R 2Z5

**Tel.:** (514) 313-8885 | **Toll free:** 1 (800) 563-5660

[sales@viconics.com](mailto:sales@viconics.com) | [www.viconics.com](http://www.viconics.com)