



PIR Ready VT7300F5X00B-2572 Series 24 VAC Low Voltage ECM Fan Coil Controller For Commercial & Lodging FCU Applications

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PRODUCT OVERVIEW

Today, more and more engineers are commonly specifying Fan Coil units that function with electronically commutated motors (ECMs), which offer better energy efficiency and reduced operating costs. The latest Viconics VT7300F-2752 Controller allows you to capitalize on this additional energy savings by allowing you to optimize the fan control sequences of electronically commutated motors.

The Viconics ECM Fan Coil Terminal Equipment Controller is optimized to offer full proportional operation versus the traditional three-speed tap operation. The end user can now benefit from better control, increased efficiency and a more comfortable environment.



VT73x5X Lodging VT73x0X Commercial

This wall-mounted controller features an easy-to-read digital display and built-in commissioning and configuration utility, temperature sensor and optional humidity and passive infra red occupancy sensor (PIR) cover. This Network Ready Controller is available in both BACnet® and wireless Zigbee® models. No previous building automation training is required for the easy installation and commissioning process, which can be completed in about fifteen minutes, reducing overall installation time, providing increased savings and quicker return on investment.

The additional following documentation is available on www.viconics.com

- PIR application information and examples are available on document: *APP-VT7xxx-PIR-Guide-Exx*
- PIR cover installation information is available on document: *PIR Cover Installation-Exx*
- Information on the BACnet models (VT76xxX5x00B), is available on document *ITG-VT73xx-PIR-BAC-Exx*

MODELS AVAILABLE

Part number	Description
VT7300F5X00B-2572	Commercial Applications with Override
VT7305F5X00B-2572	°C/°F Hotel/Lodging Applications

Ordering Information Notes:

- **(X)** Model number represents available communication options: **X=none** for Network Ready, **X=B** for BACnet MS-TP.
- Controllers can be ordered with a factory installed PIR cover. Please use (5500) extension instead of the (5000) only extension. Ex. VT7606B5500B.
- Controllers ordered without a PIR cover can be retrofitted with a separate PIR accessory cover afterwards when required

FEATURES & BENEFITS

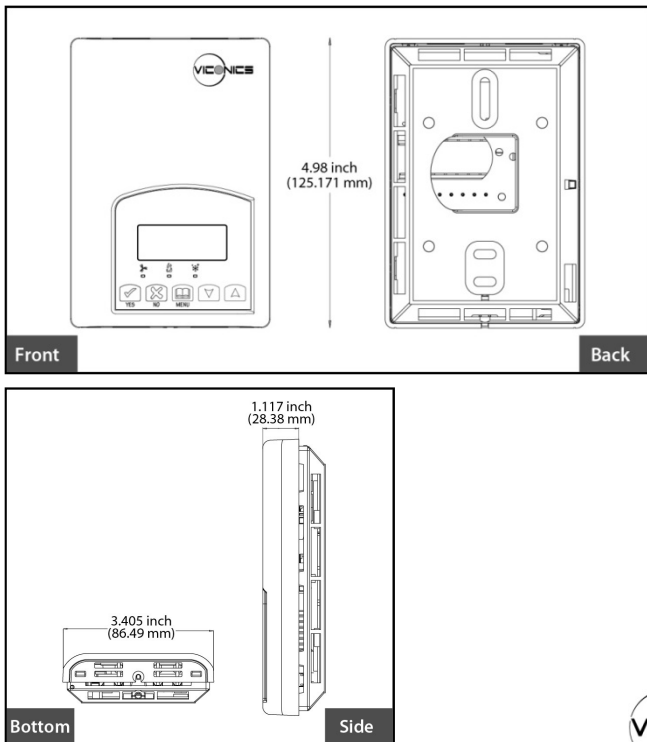
FEATURES	BENEFITS
Advanced fan sequence of operation	Provides full optimization of the ECM fan motor energy-saving opportunities
Proportional Control Fan Mode	Uses industry standard 0-10DC control signal
Lockable keypads for tamper proofing	No need for terminal equipment controller guards
Built-in PIR functionality	Provides automatic increased energy savings through advanced occupancy settings
Advanced occupancy functions	More flexibility for the end user
Configurable fan functions	Auto fan speed mode
On-board configuration setup utility	Easy Installation
Three configurable inputs	Provides opportunities for extra monitoring factions

SPECIFICATIONS

Controller power requirements:	19-30 VAC 50 or 60 Hz; 2 VA (RC & C) Class 2 RC to RH jumper 2.0 Amps 48 VA maximum
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
Sensor:	Local 10 K NTC thermistor
Resolution:	± 0.1 °C (± 0.2 °F)
Control accuracy:	± 0.5 °C (± 0.9 °F) @ 21 °C (70 °F) typical calibrated
Occupied and unoccupied setpoint range cooling:	12.0 to 37.5 °C (54 to 100 °F)
Occupied and unoccupied setpoint range heating:	4.5 °C to 32 °C (40 °F to 90 °F)
Room and outdoor air temperature range:	-40 °C to 50 °C (-40 °F to 122 °F)
Proportional band for room temperature control:	
Digital inputs:	Factory set, heating and cooling at: 1.1°C (2.0°F)
Contact output rating:	Relay dry contact only across C terminal to DI1 or DI2 Each relay output: (Y1, Y2, G, W1, W2 & AU) 30 VAC, 1 Amp. maximum 30 VAC, 3 Amp. in-rush 0 to 10 VDC into 2KΩ resistance min. ± 3% typical
Analog output rating:	18 gauge maximum, 22 gauge recommended
Analog output accuracy:	4.94" x 3.38" x 1.13"
Wire gauge:	0.75 lb (0.34 kg)
Dimensions:	UL: UL 873 (US) and CSA C22.2 No. 24 (Canada), File E27734 with CCN XAPX (US) and XAPX7 (Canada)
Approximate shipping weight:	Industry Canada: ICES-003 (Canada)
Agency Approvals all models:	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 FCC: Compliant to: Part 15, Subpart C
Agency Approvals all models:	
Agency Approvals Wireless models:	

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.

DIMENSIONS



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- When replacing an existing Terminal Equipment Controller, label the wires before removal of the Terminal Equipment Controller.
- Electronic controls are static sensitive devices. Discharge yourself properly before manipulating and installing the Terminal Equipment Controller.
- A short circuit or improper wiring may permanently damage the Terminal Equipment Controller or the equipment.
- All VT7000 series Terminal Equipment 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 or installer or 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.

