



**PIR Ready VT7600W Series
WSHP Controller
For Commercial HVAC Applications**
(Issue Date January 10th, 2012 – 028-6035 R0)

PRODUCT OVERVIEW

The new Viconics VT7600W Water Source Heat Pump Controller with dedicated dehumidification sequences provides exceptional control of water source heat pumps for commercial buildings. Common indoor air quality issues such as mold, mildew, condensation, poor occupant comfort and overall building health can be effectively resolved in an energy-efficient manner using our new controller. Simple to install and commission, this wall-mounted device monitors water temperature, as well as other points, that offer added value without the additional costs related to more complex systems.



Designed for new construction and retrofit projects, the Viconics Water Source Heat Pump Controllers dramatically decrease project delivery costs by reducing installation, configuration and commissioning time. No complex software or tools are required to customize functionality in order to meet your required applications. The Viconics water source heat pump controller provides all the advanced features and monitoring functions required by most modern building automation systems in one simple “thermostat like” enclosure.

The Viconics Water Source Heat Pump Controllers also feature an intuitive menu-driven, backlit LCD display that guides users through the configuration steps, making the configuration process extremely simple. This menu is used to configure parameters such as temperature, time events, system mode, fan mode and more.

When compared to traditional building automation controllers, the Viconics wall-mounted VT7600W Water Source Heat Pump Controller with RH control for dehumidification provide building owners with unmatched return on investment while maximizing profits for system integrators.

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

- PIR application information and examples are available on document: *APP-VT76-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-VT76xx-PIR-BAC-Exx*
- Information on the Wireless models (VT76xx0X5x00W), is available on documents: *ITG-VWG-50-BAC-Exx* and *LIT-VWG-50-SETUP-Exx*

MODELS AVAILABLE

APPLICATION	2 HEAT, 2 COOL
Model (with scheduling)	VT7652W5X00(X)
Model (without scheduling)	VT7600W5X00(X)

Ordering Information Notes:

- (X) model number represents available communication options: **X=none** for Network Ready, **X=B** for BACnet MS-TP, and **X=W** for Wireless
- 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
Built-in dehumidification strategies	Resolve common building issues such as mold, mildew and condensation
Extra monitoring points provided	Provide better remote view of system performance
Open protocol allows for easy integration into any network system	Allows the end user to choose the best network system based on building requirements
Controllers are Network Ready and can be field retrofit with optional communication modules	Integration into a network system can be made at any time without losing initial hardware investment
One simple wall-mounted device to install, wire and commission	Lower overall installation costs and quicker return on investment
Factory-installed PIR sensor or PIR-ready controller	Provides additional automatic energy savings
Application-specific controllers	Can be configured to meet most applications

SPECIFICATIONS

Controller power requirements:

Operating conditions:

Storage conditions:

Sensor:

Resolution:

Control accuracy:

Occupied and unoccupied setpoint range cooling:

Occupied and unoccupied setpoint range heating:

Room and outdoor air temperature range:

Proportional band for room temperature control:

Digital inputs:

Contact output rating:

Analog output rating:

Analog output accuracy:

Wire gauge:

Dimensions:

Approximate shipping weight:

Agency Approvals all models:

Agency Approvals all models:

Agency Approvals Wireless models:

19-30 VAC 50 or 60 Hz; 2 VA (RC & C) Class 2

RC to RH jumper 2.0 Amps 48 VA maximum

0 °C to 50 °C (32 °F to 122 °F)

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

-30 °C to 50 °C (-22 °F to 122 °F)

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

Local 10 K NTC thermistor

± 0.1 °C (± 0.2 °F)

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

12.0 to 37.5 °C (54 to 100 °F)

4.5 °C to 32 °C (40 °F to 90 °F)

-40 °C to 50 °C (-40 °F to 122 °F)

Factory set, heating and cooling at: 1.1°C (2.0°F)

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

18 gauge maximum, 22 gauge recommended

4.94" x 3.38" x 1.13"

0.75 lb (0.34 kg)

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)

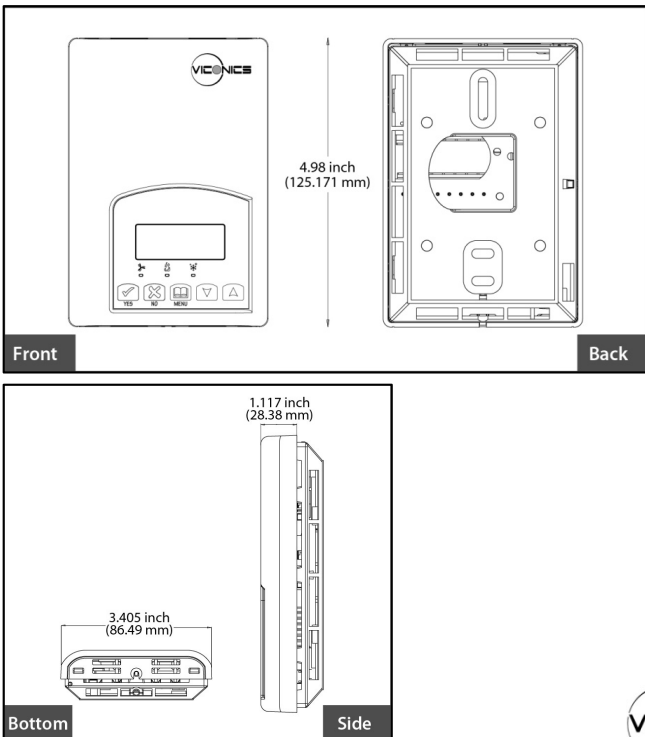
C-Tick: AS/NZS CISPR 22 Compliant (Australia / New Zealand)

Supplier Code Number N10696

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.

DIMENSIONS



- 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.



VICONICS TECHNOLOGIES INC.

9245 L'ANGELIER BLVD. | ST-LEONARD | QUEBEC | CANADA | H1P 3K9

TEL.: (514) 321.5660 | FAX: (514) 321.4150 | TOLL FREE: 1 800.563.5660

SALES@VICONICS.COM | WWW.VICONICS.COM