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## VYKONstat VT7300 Series



### Low Voltage Fan Coil Thermostats

The VYKONstat VT7300 Fan Coil Thermostats are designed to provide temperature control of multi-speed fan coil units with 2 position, Analog or floating temperature control valves. These advanced function thermostats are supplied preprogrammed to suit most applications and require little configuration to accomplish temperature control regardless of the application.

The VT7300 Series offers exceptional value through packaging most used occupancy functions found typically in multi-device control installations. These thermostats

are offered in four distinct variations: BACnet MS/TP, Echelon-LonTalk, Wireless or stand-alone. The communicating version(s) feature, aesthetics, and functionality consistent with their stand-alone counterparts however offer the network access to internal functions often only associated with larger, more costly controllers.

In addition to accommodating most industry standard protocols, the VT7300-series fan coil thermostats have also been designed for ease of installation, wiring and commissioning and to reduce overall project delivery costs. Removable terminal blocks and hinged PCB board facilitate the installation and wiring process. A local, intuitive, on-board menu driven configuration utility allows the installer to select control sequences and settings to suit the application. Optional changeover sensor eliminates multi-vendor peripheral sourcing and further simplifies installation.

### Features

- Advanced occupancy functions
- 3 Auxiliary configurable inputs
- Selectable Sequences of Operation
- Unique configuration setup utility
- Lockable keypad
- Available for 24 VAC On/Off, Floating or Analog control
- Auxiliary output
- Available with various open industry standards communication adapters

## Benefits

- Through the network or smart local occupancy sensing
- Adds functionality
- One model meet more applications
- Reduces project delivery cost
- Minimizes parameter tampering
- Tamper proof, no need for thermostat guards
- Meet advanced applications requirements
- Can be used for lighting or reheat
- Adds network integration functionality for additional savings

## Specifications

### Power Supply

- 19-30 Vac 50 or 60 Hz; 2 VA Class 2

### Environmental

- Operating: 0 °C to 50 °C (32 °F to 122 °F); 0% to 95% R.H. non-condensing
- Storage: -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)
- Accuracy: ± 0.5 °C (± 0.9 °F) @ 21 °C (70 °F) typical calibrated

### Occupied and unocc. set point range

- Cooling: 12.0 to 37.5 °C (54 - 100°F)
- Heating: 4.5 °C to 32 °C (40°F- 90°F)

### Temperature display range

- -40°C to 50°C (-40 °F -122°F)

### Proportional band

- Cooling & Heating: 1.8°C (3.2°F)

### Binary inputs

- Dry contact: BI1, BI2 & UI3 to Scom

### Output ratings

- Relay: 30 Vac/1A; Max in-rush: 3 A
- Triac: 30 Vac/1A; Max in-rush 3A
- Analog: 0-10 Vdc into 2KΩ min

### Wire gauge

- 22 AWG (18 AWG Max.)

### Dimensions

- 4.94" x 3.38" x 1.13"

### Approximate shipping weight

- 0.75 lb (0.34 kg)

### Agency Approvals

- UL 873 (US)
- CSA C22.2 No. 24, File E27734 w/CCN XAPX (US) and XAPX7 (Canada)
- FCC Compliant to CFR 47, Part 15, Subpart B, Class A (US)
- Industry Canada ICES-003 (Canada)
- CE EMC Directive 89/336/EEC (Europe Union)
- C-Tick AS/NZS CISPR 22 Compliant (Australia / New Zealand) / Supplier Code Number N10696

## Ordering Information -VT7300 Series for 2 Position Control Valves

| Control Outputs*   | 2 & 4 Pipe On/Off Control | 2 & 4 Pipe On/Off Control | 2 & 4 Pipe On/Off Control with PIR | 2 & 4 Pipe On/Off Control with PIR |
|--------------------|---------------------------|---------------------------|------------------------------------|------------------------------------|
| Market Application | Commercial**              | Hotel                     | Commercial**                       | Hotel                              |
| Network Type       | Product Model Number      |                           |                                    |                                    |
| Stand Alone        | VT7300A5028               | VT7305A5028               | VT7300A5528                        | VT7305A5528                        |
| BACnet-MS/TP       | VT7300A5028B              | VT7305A5028B              | VT7300A5528B                       | VT7305A5528B                       |
| Echelon-LonTalk    | VT7300A5028E              | VT7305A5028E              | VT7300A5528E                       | VT7305A5528E                       |
| Wireless 802.15.4  | VT7300A5028W              | VT7305A5028W              | VT7300A5528W                       | VT7305A5528W                       |

## Ordering Information- VT7300C Series for Floating Control Valves

| Control Outputs*   | 2 & 4 Pipe Floating & On/Off Control | 2 & 4 Pipe Floating & On/Off Control w/RH Sensor | 2 & 4 Pipe Floating & On/Off Control | 2 & 4 Pipe Floating & On/Off Control w/RH Sensor |
|--------------------|--------------------------------------|--|--------------------------------------|--|
| Market Application | Commercial**                         | Commercial**                                     | Hotel                                | Hotel  |
| Network Type       | Product Model Number                 |  |                                      |  |
| Stand Alone        | VT7300C5028                          | VT7350C5028                                      | VT7305C5028                          | VT7355C5028                                      |
| BACnet-MS/TP       | VT7300C5028B                         | VT7350C5028B                                     | VT7305C5028B                         | VT7355C5028B                                     |
| Echelon-LonTalk    | VT7300C5028E                         | VT7350C5028E                                     | VT7305C5028E                         | VT7355C5028E                                     |
| Wireless 802.15.4  | VT7300C5028W                         | VT7350C5028W                                     | VT7305C5028W                         | VT7355C5028W                                     |

| Control Outputs*   | 2 & 4 Pipe Floating & On/Off Control w/PIR | 2 & 4 Pipe Floating & On/Off Control with RH Sensor w/PIR | 2 & 4 Pipe Floating & On/Off Control w/PIR | 2 & 4 Pipe Floating & On/Off Control with RH Sensor w/PIR |
|--------------------|--|---|--|---|
| Market Application | Commercial**                               | Commercial**  | Hotel                                      | Hotel   |
| Network Type       | Product Model Number                       |   |  |   |
| Stand Alone        | VT7300C5528                                | VT7350C5528   | VT7305C5528                                | VT7355C5528   |
| BACnet-MS/TP       | VT7300C5528B                               | VT7350C5528B  | VT7305C5528B                               | VT7355C5528B  |
| Echelon-LonTalk    | VT7300C5528E                               | VT7350C5528E  | VT7305C5528E                               | VT7355C5528E  |
| Wireless 802.15.4  | VT7300C5528W                               | VT7350C5528W  | VT7305C5528W                               | VT7355C5528W  |

## Ordering Information - VT7300F Series for Analog Control Valves

| Control Outputs*   | 2 & 4 Pipe Analog 0-10V | 2 & 4 Pipe Analog 0-10v w/RH Sensor | 2 & 4 Pipe Analog 0-10v | 2 & 4 Pipe Analog 0-10v w/RH Sensor |
|--------------------|-------------------------|-------------------------------------|-------------------------|-------------------------------------|
| Market Application | Commercial**            | Commercial**                        | Hotel                   | Hotel                               |
| Network Type       | Product Model Number    |                                     |                         |                                     |
| Stand Alone        | VT7300F5028             | VT7350F5028                         | VT7305F5028             | VT7355F5028                         |
| BACnet-MS/TP       | VT7300F5028B            | VT7350F5028B                        | VT7305F5028B            | VT7355F5028B                        |
| Echelon-LonTalk    | VT7300F5028E            | VT7350F5028E                        | VT7305F5028E            | VT7355F5028E                        |
| Wireless 802.15.4  | VT7300F5028W            | VT7350F5028W                        | VT7305F5028W            | VT7355F5028W                        |

| Control Outputs*   | 2 & 4 Pipe Analog 0-10v w/PIR | 2 & 4 Pipe Analog 0-10v w/RH Sensor w/PIR | 2 & 4 Pipe Analog 0-10v w/PIR | 2 & 4 Pipe Analog 0-10v w/RH Sensor w/PIR |
|--------------------|-------------------------------|---|-------------------------------|---|
| Market Application | Commercial**                  | Commercial**                              | Hotel                         | Hotel                                     |
| Network Type       | Product Model Number          |   |                               |   |
| Stand Alone        | VT7300F5528                   | VT7350F5528                               | VT7305F5528                   | VT7355F5528                               |
| BACnet-MS/TP       | VT7300F5528B                  | VT7350F5528B                              | VT7305F5528B                  | VT7355F5528B                              |
| Echelon-LonTalk    | VT7300F5528E                  | VT7350F5528E                              | VT7305F5528E                  | VT7355F5528E                              |
| Wireless 802.15.4  | VT7300F5528W                  | VT7350F5528W                              | VT7305F5528W                  | VT7355F5528W                              |

