

DtiCorp.com Is Introducing 8 Honeywell W7751 Controllers

The Honeywell W7751B,D and F are VAV II Controllers in the Excel 10 family product line. These VAV controllers provide pressure independent or pressure dependent air flow control.

August 26, 2010 (FPRC) -- Popular Honeywell online retailer DtiCorp.com (<http://www.DtiCorp.com>) is introducing 8 Honeywell W7751 Unitary Controllers for Excel 5000. The W7751B,D and F are VAV II Controllers in the Excel 10 family product line. These VAV controllers provide pressure independent or pressure dependent air flow control and series and parallel (induction) fan control using single and dual duct applications. VAV systems generally provide cool air only to the zones. The W7751 controllers provide additional outputs that control VAV box reheat coils. The heaters can be staged electric or modulating hot water. Supply and exhaust pressurization control are provided on a zone basis. W7751H and J Smart VAV Actuator are factory-integrated VAV Box Controllers with a 90 second ML6174B Direct-Coupled Actuator in the Excel 10 family product line.

Features:

- Uses Echelon LonWorks protocol.
- W7751B,D,F use Free Topology Transceiver (FTT) networks and are compliant with VAV device object type number 8010 functional LonMark profile.
- Energy saving setpoint reset for electrical demand limit control.
- Actuator included with W7751H mounts directly onto VAV box damper shaft and has up to 35 lb. in. torque, 90 degrees stroke, and 90 sec.
- Timing at 60 Hz.
- High speed 78 kilobit communications network.
- Capable of standalone operation, but uses E-Bus network communications.
- Easy user-access to the network communications jack.
- Uses enhanced microbridge-type airflow sensor with dual integral restrictor design.
- Easy user-access to airflow sensor inputs.
- Provides Proportional Integral Derivative (PID) temperature control.
- Designed for pressure independent Variable Air Volume (VAV) control.
- Floating hot water and three-stage electric or modulating hot water heat.
- Provides nonlinear floating algorithm for velocity control loops.
- Individual zone pressurization for supply and exhaust control.
- Factory configured via EEPROM with critical user parameters default values.
- Motion sensor interface for enhanced energy savings.
- Supports Terminal Regulated Air Volume (TRAV) concept.
- Pressurize and depressurize, night purge, and morning warm-up sequences supported.
- Wall module options for sensor, setpoint and bypass.
- Software selectable limits on remote setpoint adjustments.
- Three integrated 8 bit pipelined microprocessors running at 10 MHz.
- 14 bit A/D converter.
- 32K by 8 ROM/PROM, 512 bytes of EEPROM, and 2048 bytes of static RAM.
- W7751D,F mount to a standard 4 x 4 in. and 5 x 5 in. junction box or snapped to 35 by 7.5mm EN50022 DIN Rail.

- Subbase provides the slotted hole pattern for the R7450 series IRC devices (118x87 mm)

Specifications:

- When the VAV II controller is being balanced, the configuration or balancing tool may indicate stable airflow and allow balancing before the controller has actually reached the balancing control setpoint. During this period, if any measurements are made of the actual airflow volume and entered while the controller is still ramping to the airflow setpoint, erroneous balancing results may be recorded.
- All VAV II controllers must be balanced for both minimum and maximum airflow for highest accuracy. If the controller's final configuration is to be a constant volume unit, a minimum airflow balance is recommended.
- Excel 10 VAV II Controllers must have an air flow pickup table downloaded to ensure accurate balancing. Configuration tools do not automatically install the flow pickup table defined for the controller.
- If VAV II Controllers are not balancing, check with the Honeywell Authorized technician or Honeywell contractor that the flow pickup table download to each controller has occurred.
- Anytime the controller's airflow measurement process is to be tested or troubleshooting is attempted, the airflow must be constant. The VAV II controller should be fixed at some desired or stable setpoint that is not changed during troubleshooting or testing.
- Anytime the airflow pickup tubes are disconnected from the controller, the controller should be powered down. There is no chance of damage to the controller, but if the controller is exposed to unusually high static pressure (< 5.0 in. w.c.) when one pickup tube is connected there is a very slight possibility that the controllers sensing process will stop operating. Should this condition be suspected, simply cycle power to the controller. It is not possible for this condition to occur under normal operation with both airflow pickup tubes connected to the controller.
- Physical measurement of the flow pickup pressure for the purpose of testing is best done with an instrument capable of displaying pressure to 0.01 ±0.005 in. w.c. Though electronic gauges and sensors often offer the necessary accuracy, their sensitivity can cause problems in field applications.

Models available:

1. W7751B2010 Excel 10 VAV II controller compatible Printed Wiring Board
2. W7751C1002 Excel 10 series 1000 VAV controller
3. W7751D2016 Excel 10 VAV II controller with two piece construction and an internally wired subbase

4. W7751E1007 Excel 10 series 1000 VAV controller
5. W7751F2011 Excel 10 VAV controller with two piece construction and an externally wired subbase
6. W7751G1003 Excel 10 series 1000 VAV controller
7. W7751H2025 Excel 10 smart VAV controller with a premounted ML6161 Actuator
8. W7751J2004 Excel 10 smart VAV controller with a premounted ML6161 Actuator

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