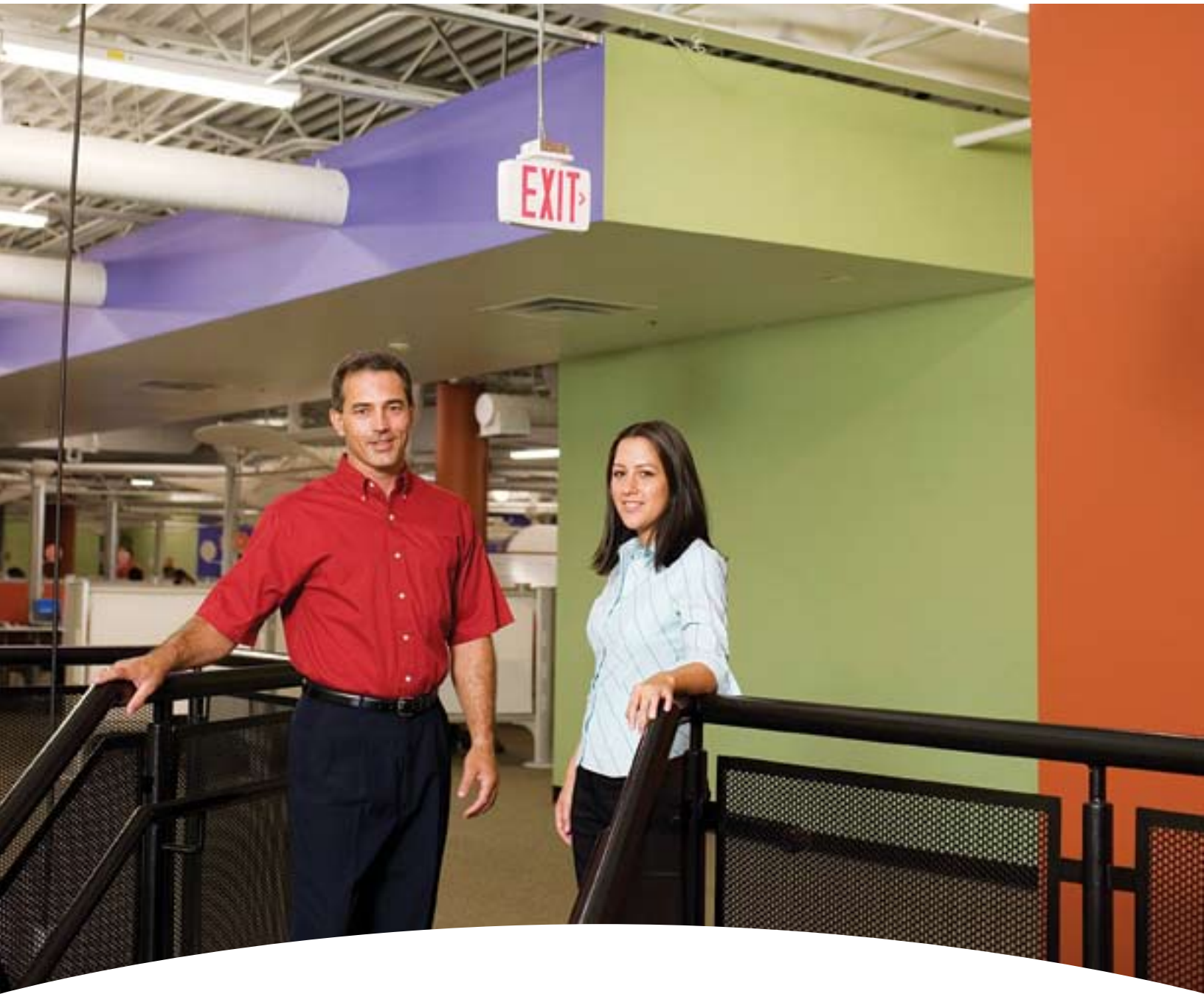


Spyder™ Variable Air Volume Controllers

Honeywell



For flexible, energy-efficient control of VAV (Variable Air Volume) applications, count on Spyder™ VAV Controllers from Honeywell. With a wide range of key features, Spyder VAV Controllers are the right choice for your commercial building.

Advanced Variable Air Volume Control



Whether designing energy-efficient Leadership in Energy and Environmental Design (LEED®) buildings or creating new advanced control schemes for automated buildings, Spyder™ VAV Controllers redefine power and flexibility by providing the most advanced unitary control with unparalleled flexibility to customize solutions to fit user unique needs — all without requiring a plant controller.

Spyder VAV Controllers are designed to meet today's advanced, custom building requirements. They can support single- or dual-duct VAV, complex room CO₂ control, terminal fan speed — just about every room control requirement. Spyder VAV Controllers are excellent for any size commercial building that needs the power of a plant controller in the package of a unitary controller.

THE OPEN SYSTEM ADVANTAGE

Spyder VAV Controllers use the Echelon® LONMARK® protocol for openness and interoperability, allowing them to be used with other LONMARK devices or used individually as a standalone system.

MERGING TECHNOLOGY, COMFORT AND SAVINGS

- Reliable individual room temperature control
- Pressure-independent or pressure-dependent flow control
- Wide application flexibility for all VAV and constant volume terminal unit applications

Automation and Control Solutions

In the U.S.:

Honeywell

1985 Douglas Drive North
Golden Valley, MN 55422-3992

In Canada:

Honeywell Limited

35 Dynamic Drive

Toronto, Ontario M1V 4Z9

1-800-466-3993

www.honeywell.com

- Maximum energy savings through time-of-day control, load optimization, occupancy sensor interface with standby setpoints and demand limit control
- Automation savings through features such as pressurization/depressurization, night purge, morning warm-up and terminal regulated air volume

PACKED WITH FEATURES

- **Programmable:** With a large number of inputs and outputs, Spyder can be used on any piece of equipment and will give you the flexibility to create any application. Just determine what you need done, then program Spyder to control it all.
- **Removable Terminal Strips:** Put an end to smashing fingers while trying to wire in a tight space. Wiring is fast and easy with Spyder. Because the terminal strips are removable, you can wire the terminals separately from the controller when it is located in a hard-to-reach mounting location, then just snap on the terminals.
- **Color Coded Input/Output Labels:** Only Honeywell makes connections and troubleshooting easy with color-coded labels for inputs and outputs. The labels not only ensure that the controller is wired correctly; they also aid with troubleshooting because you can check specific wiring at a glance.
- **Internal Real-Time Clock:** With Spyder, there's no need to add a separate timing device — a clock is built right in. You'll save installation time as well as have a backup for returning to network time in case the network goes down. For instance, if the internal time clock is connected in a system with a master time clock, you can set up the system to automatically revert to the internal time clock should something happen to the master.
- **Internal DC Power Supply:** Stop including extra DC power supplies for external transmitters. An internal DC power supply saves you both the expense of external power and the additional wiring.

- **Integrated Actuator Option:** With the optional integrated actuator, you'll save installation time and know you have the right actuator for your VAV application.
- **Honeywell's AIA Control:** Honeywell's Adaptive Integral Algorithm (AIA) Control is the most accurate device available for space control applications. AIA Control reduces the overshoot during control and ensures that the right temperature is achieved quicker. As a result, AIA Control diminishes wear on the actuator by reducing the number of times it repositions, increasing the life of the actuator.
- **More:** Controllers include on-board network jack, an on-board service light and a reliable Microbridge airflow sensor.

APPLICATIONS SUPPORTED

- VAV Box fan speed control
- Room CO₂ control
- VAV discharge air control and low limit
- Pressure-independent or pressure dependent single-duct applications
- Up to three stages reheat
- Floating or PWM reheat and peripheral heat
- Series fan
- Parallel fan
- Return flow tracking
- Pressure-independent or pressure dependent dual duct with or without flow mixing, cold and hot duct flow sensors
- Pressure-independent dual duct, constant volume, cold and hot duct flow sensors
- Pressure-independent dual duct, cold duct airflow sensor only
- Pressure-independent dual duct, constant volume, with discharge airflow sensor only
- Anything else your mind can dream up

OS #	Description
PVL6438N	Programmable VAV Controller
PVL6436A	Programmable VAV Controller With Actuator

LONMARK® is a trademark of Echelon Corporation.

Honeywell