



A POWERFUL FAMILY OF UNITARY
AND VAV CONTROLLERS

Advanced Control From A Unitary Controller

PERFECTLY SPUN CONTROL



Finally — The Power You Need For Advanced Control In The Body Of A Unitary Controller

You've been there — needing to jump from a basic configurable unitary controller to a programmable plant controller just for an extra feature or two, all the time knowing you won't be needing most of the controller's functions. But now, along comes Spyder™.

Spyder Controllers provide the flexibility that you could only previously get from units priced hundreds of dollars higher. You'll reduce your installation, programming and servicing time all while utilizing a controller that adapts to your air-handling needs rather than forcing you to buy a more expensive model.



Programmable

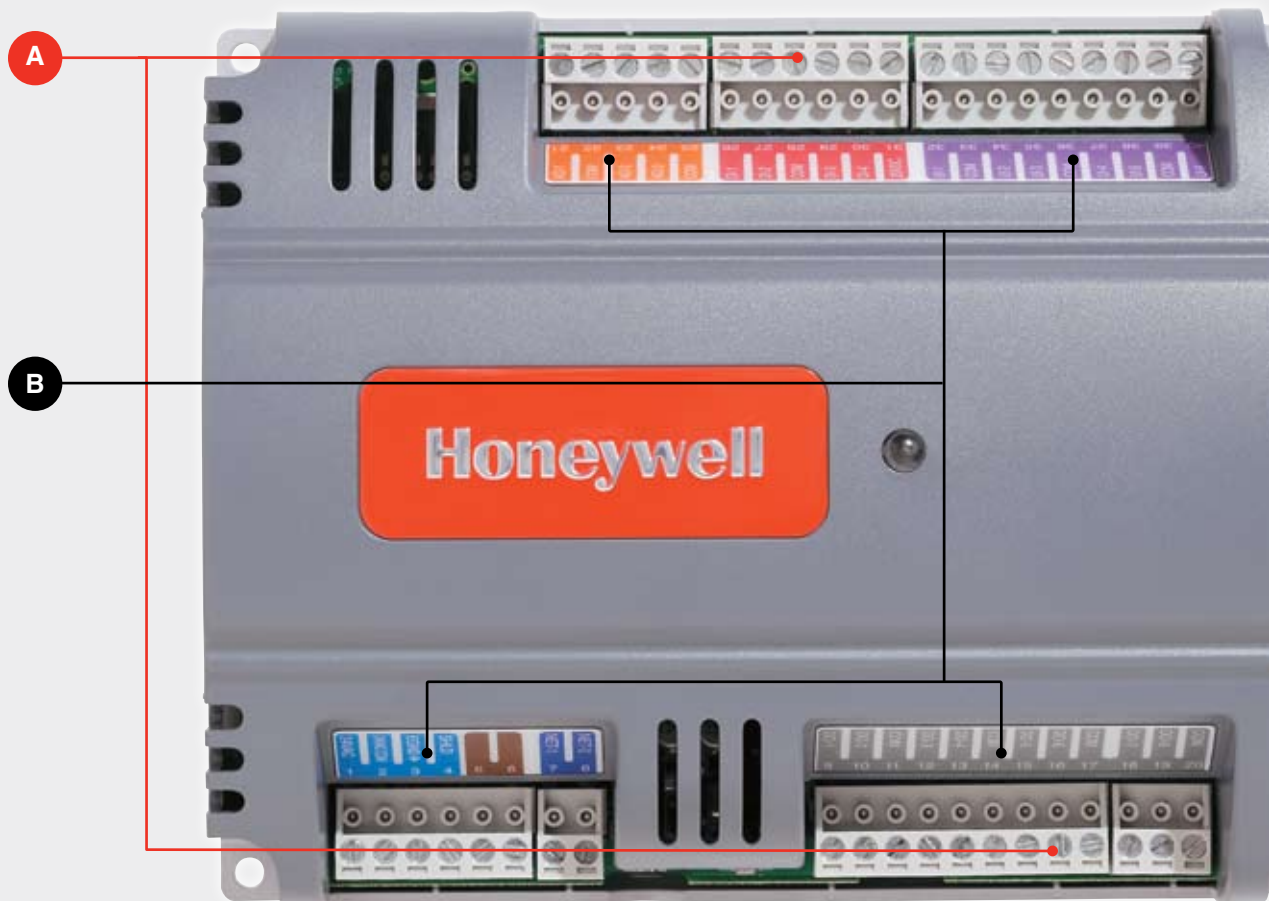
Whatever you need your equipment to do, Spyder™ has the legs to get it done. Based on the amount of inputs and outputs — and Spyder models offer plenty — Spyder can be used on any piece of equipment and will give you the flexibility to create almost any application. Just determine what you need done, then program Spyder to control it all.

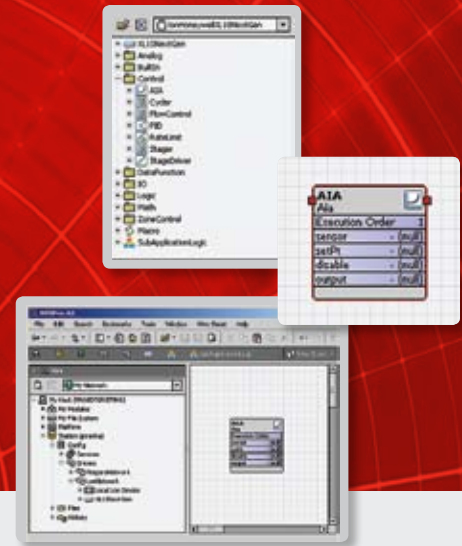
Removable Terminal Strips **A**

Service and wiring is fast and easy with Spyder. Removable terminal strips enable wiring when the controller is mounted in hard-to-reach locations. To service, simply unplug the terminals with the wires, replace the controller and plug it all back in. It's that fast and that easy.

Color-Coded Input/Output Labels **B**

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



Get unheard-of power in a unitary controller. With Spyder™, there's no need to add a separate timing device — a clock is built right in. Now the power normally reserved for plant controllers is available in the compact package of a unitary controller. The ability to add real time to your unitary applications, and knowing that your controller will continue to function even when network time is not available, is usually reserved for plant controllers. This also allows the controller to be the time master on small projects or temporarily on larger projects while waiting for the network master to be installed.

Internal DC Power Supply



Finally, there's an end to including extra DC power supplies for external transmitters. Spyder Controllers come with an internal DC power supply that saves you both the expense of external power and the additional wiring. As long as the load of the transmitter doesn't exceed the power supply's rating, you'll have the exact polarities and power you need.

Integrated Actuator Option

With the optional integrated actuator, you'll save installation time and know you have the right actuator for your VAV application. Spyder makes it that simple.

Adaptive Integral Algorithm Control

Honeywell's Adaptive Integral Algorithm (AIA) Control is the most accurate control available for space control applications. AIA Control not only reduces the overshoot during control, it ensures that customer comfort 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.

Smart For Now. Smart For The Future.

Honeywell Spyder Controllers give you affordable, flexible control for today's systems, but they're also designed for control as systems evolve. With everything from plenty of inputs and outputs to built-in DC power to programming flexibility, Spyder Controllers will give you cost-efficient control for years to come.

| OS # | Description |
|----------|---|
| PUL6438 | Programmable Unitary Controller |
| PVL6438N | Programmable VAV Controller |
| PVL6436A | Programmable VAV Controller With Actuator |



THE EVOLVING SPYDER™

With More Than 100 New
Upgrades And Features, Spyder™
Spins Even Tighter Control

The new Spyder Controller takes full advantage of Niagara^{AX™} with added features that support better workflow. Download support has been increased, while commissioning time has been decreased. It all adds up to even better productivity and control.

Just a sampling of the updates include:

Multiple Application Support

Multiple applications are now supported at every level of the programming architecture, meaning that programmers no longer need to worry that their work will be erased by accidentally dropping an application onto an existing program. Moreover, it means that completely dissimilar applications can coexist on the same wire sheet. For example, a VAV air handler application can exist with a boiler sequencing application. You'll have more flexibility to speed programming and reduce duplicate work.

Forcing Of Individual Simulation Points

No longer do all the points in a simulation need to be forced from one screen — they can be forced right from the wire sheet, allowing new points to be easily added and existing points to be quickly changed.

Full Download Support

You can control the type of download to the controller. This support for full and smart (partial) downloading to Spyder saves time.

Increased Spyder Controllers Per Network

The number of Spydres allowed on a network has increased significantly (varies by load).

Increased Download Support

Support was added to reduce failures during the download process. The tool automatically checks for problems during download.

Reduced Commission Time

Commission time has been greatly reduced, improving technician productivity.

These features represent only a fraction of the upgrades made to the Spyder Controller. More than 100 advances have been made, proving again that Spyder has the legs to grow and evolve with your business.

PROVEN SUCCESS

A Smart Solution For A Gifted School

Sycamore School in Indianapolis, Ind., provides a full-time educational environment for gifted children, with the hope that young people who attend will make major positive contributions to their communities and the world in the years ahead. Unfortunately, old HVAC equipment was cooling the school's air faster than it could remove humidity. Moisture levels ranged from 80-90% on most days, sometimes as high as 100%, leading to concerns about mold problems and the health of students and staff.

School administrators turned to local HVAC expert DEEM, which recommended Honeywell's Spyder™ Controller. Thanks to the efficient, effective — and affordable — control provided by Spyder, humidity levels now range from 50-60%, creating a more comfortable environment. More importantly, there are no more concerns that the health of the students will be put at risk.



“ Spyder gives us the ability to be creative and give our customers what they want. Spyder removes the limits set by other controllers. ”

*Erik Merz
DEEM, LLC
Indianapolis, Ind.*

Cost-Effective Control And Absolute Accessibility

When a large medical technology company began constructing new buildings in the Minneapolis, Minn. area, it had some specific requests. The two sites needed to have reliable indoor CO₂ measurements and a system that allowed them to bring in outdoor air without over-ventilating the buildings. They also wanted a cost-effective standalone controller that could operate independently of the network. Metropolitan Mechanical Contractors (MMC) had the answer.

MMC recommended that five Spyder Controllers be installed for the project. Spydere were installed on the rooftop unit and were programmed to work with CO₂ sensors and only bring in outside air when it was needed — an option that other controllers didn't offer. Another Spyder monitors the data systems for the site, including fire systems, generator power and room temperature. One of the most important things that Spyder Controllers, coupled with the WEBS^{AX}™ platform, offered was accessibility. Because of this pairing, the system was available on the Internet even before its completion, allowing other contractors — especially architects and engineers — to check the system and watch it perform. Plus, MMC was able to make small adjustments to the system as needed.



“ Updates and adjustments are easy to make with this controller. It's a huge advantage to be able to say that our customers have full off-site support with Spyder. ”

*Chris Konig
Metropolitan Mechanical Contractors, Inc.
Minneapolis, Minn.*

RESOURCES

Honeywell is proud to provide Spyder™ users with the high level of support they deserve. Best of all, thanks to the considerable online support, the information you need is at your fingertips 24/7.

“ **DON'T JUST TAKE OUR WORD FOR IT** ”
Responsiveness from the Honeywell team is spectacular.

*Jesse Swalley
Lead Programmer
DEEM, LLC*

BUILDINGS FORUM

Along with technical support and sales materials, Spyder is a key component of the Buildings Forum, established by Honeywell to help channel partners benefit from each other's experience and knowledge. You'll find discussion forums, downloadable information and files shared by other contractors.

The Buildings Forum is located at **buildingsforum.honeywell.com**. Visit often to get your questions answered, see how other contractors are using Spyder and to get tips for getting the most from your Spyder installations.

ONLINE TRAINING

The more you know, the more your business can grow. And Honeywell is committed to your success with new Honeywell eLearning Modules available online 24/7, including training on the Spyder controller. More technical training modules for Spyder will be added throughout 2008, so check back often.

To begin, visit the **customer.honeywell.com** site, click on Support & Resources, select Training, then click the eLearning link.

**HONEYWELL ELEARNING ONLINE
MODULES MAKE SPYDER TRAINING
AVAILABLE 24/7.**



LEARN MORE

For more information on Honeywell Spyder Controllers,
call **1-800-466-3993** or visit **customer.honeywell.com/spyder**.

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