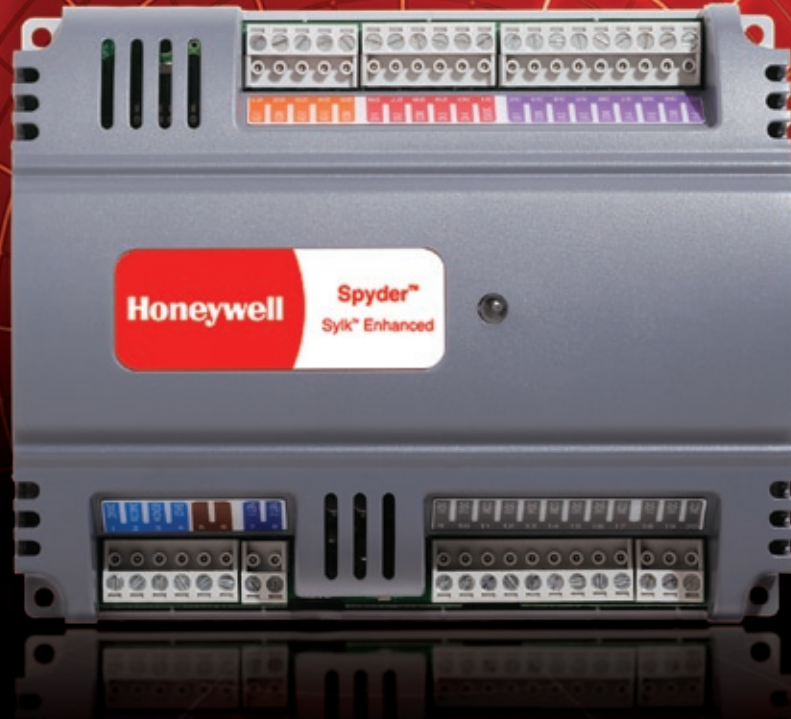




A POWERFUL FAMILY OF UNITARY
AND VAV CONTROLLERS

Advanced Control From A Unitary Controller

PERFECTLY SPUN CONTROL



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

New Spyder™ Sylk™ Enhanced 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 using a controller that adapts to your air-handling needs rather than forcing you to buy a more expensive model. Plus, with the new addition of a two-wire, polarity-insensitive bus — the Sylk — you can easily use the new Honeywell Zio™ LCD wall module for even more flexibility.

THE EVOLVING SPYDER SYLK ENHANCED

With more than 100 new upgrades and features, Spyder Sylk Enhanced spins even tighter control.



Enhanced Performance

Spyder Sylk Enhanced retains all the popular features of the original Spyder and enhances them with even more.

Multiple Applications Supported

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 saves time.

Increased Spyder Sylk Enhanced Controllers Per Network

The number of Spyder Sylk Enhanced controllers allowed on a network has increased significantly (varies by load).

Reduced Commission Time

Commission time has been greatly reduced, improving technician productivity.

Advanced Variable Air Volume Control

Spyder Sylk Enhanced VAV controllers redefine power and flexibility by providing the most advanced unitary control.

Easy VAV Balancing

Spyder Sylk Enhanced VAV controllers use Honeywell RapidBalance™ 3.0 for VAV box balancing. RapidBalance is a standalone, easy-to-use, PC-based software program with the ability to drive multiple VAVs to maximum or minimum flow setpoint, as well as drive water valves open or closed for water balancing. This allows all Honeywell Excel 10 VAV controllers and Spyder VAV controllers to be balanced using one simple box.

Applications

The Spyder VAV controller is designed to meet a wide range of advanced and custom building requirements:

- 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

WITH EXTENDED REACH

The sensor family offers everything from the latest in LCD digital technology to the basic wall module for temperature sensing only.

ZIO LCD WALL MODULE



The new Zio is the first LCD Wall Module to be compatible via a two-wire, polarity insensitive bus with a Honeywell Direct Digital Control (DDC).

Two-Wire Bus

The two-wire bus simplifies wiring and frees up inputs and outputs.

Change Controller Variables

The Zio gives you control like you've never had from a wall module. Almost any variable in the controller can be viewed and modified directly from the wall module.

Customizable Display

Give end-users a meaningful home screen by configuring the Zio home screen for

the specific application and end-user preferences.

Two Models

Two models do it all, so you won't need to select from or purchase many different part numbers for different applications. Just remember two easy part numbers: TR70 and TR70-H with humidity output.

See How It Works

Go to customer.honeywell.com/zio to interact with an online demo of the Zio.

TR20 SERIES WALL MODULES



Bring on just about any temperature control scenario and the new TR20 family of direct-wired wall modules is ready to handle it. Compatible with many Honeywell controllers, including Spyder Sylk Enhanced, TR20 wall modules provide the accurate temperature readings and reliability you've come to expect from Honeywell sensors.

Built-In Features

The family features include:

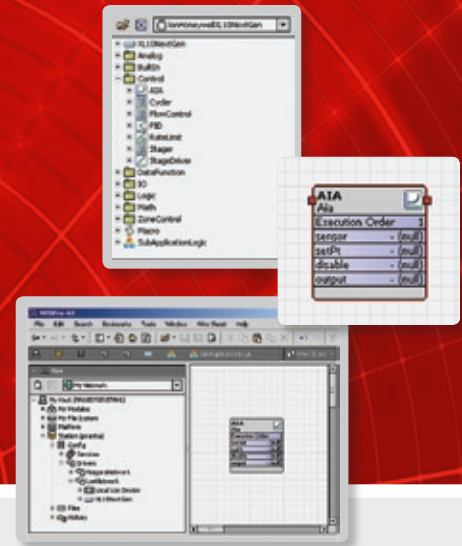
- Space sensor, 20K ohms NTC on most models
- Clean-looking, unobtrusive style
- Easy to adjust

Adaptable

The TR22 and TR23 wall modules are engineered with additional optional features.

Model options include:

- Temperature only
- Temperature and humidity
- Three selectable setpoint dials in Fahrenheit, Celsius and Relative (- to +)
- Override button with LED
- LON® jack
- 3-position or 5-position fan switch



CLASSIC SPYDER

All the popular features of original Spyder controllers are still here and ready to deliver powerful control.

Programmable

Spyder Syk Enhanced can be used on a wide variety of equipment types and will give you the flexibility to create almost any application. Just determine what you need done, then program Spyder Syk Enhanced to control it all.

Removable Terminal Strips

Service and wiring is fast and easy. 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.

Color-Coded Input/Output Labels

Connections and troubleshooting are 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 Syk Enhanced, there's no need to add a separate timing device — a clock is built right in.

Internal DC Power Supply

Spyder Syk Enhanced 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.

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 more quickly. As a result, AIA Control diminishes wear on the actuator by reducing the number of times it repositions, increasing the life of the actuator.



The Open System Advantage

Because Spyder Sylk Enhanced controllers use the Echelon® LONMARK® protocol for openness and interoperability, you can use them with other LONMARK devices or as a standalone system. Modular construction with flexible hardware configurations speed installation and lower service costs. Models snap onto a standard din rail, or can be mounted using simple sheet metal screws. Spyder Sylk Enhanced controllers also offer removable terminal strips that can be pre-wired for fast installation or easy serviceability.

Merging Technology, Comfort And Savings

Count on Spyder Sylk Enhanced controllers for:

- Reliable individual room temperature control
- Advanced control including CO₂, Discharge Air Reset and VAV systems
- Wide application flexibility for unitary control
- Maximum energy savings through time-of-day control, load optimization, occupancy sensor interface with standby setpoints and demand limit control
- Automation savings through pressurization/depressurization, night purge, morning warm-up, terminal regulated air volume and more
- Pressure-independent flow control or pressure-dependent control and wide application flexibility for all VAV and constant volume terminal unit applications

Save Space And Energy

Honeywell Spyder Sylk Enhanced unitary controllers offer flexibility in your system design, don't require a significant amount of building space and help reduce energy costs. The extended operating temperature rating (-40° to 150° F) means you can mount controllers directly in the control panel of rooftop air-handling units, saving the installation costs of a separate control panel located in a conditioned space.





Cost-Effective Control And Absolute Accessibility

When a large medical technology company began constructing new buildings in the Minneapolis, MN 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.



“ 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 Koenig
Metropolitan Mechanical Contractors, Inc.
Minneapolis, MN*

BUILDINGS FORUM

Along with technical support and sales materials, Spyder Sylk Enhanced 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.

Get your questions answered, see how other contractors are using Spyder Sylk Enhanced and to get tips for getting the most from your Spyder Sylk Enhanced installations by visiting the Buildings Forum at buildingsforum.honeywell.com.

**HONEYWELL ELEARING ONLINE
MODULES MAKE SPYDER SYLK
ENHANCED TRAINING AVAILABLE 24/7.**

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 Sylk Enhanced controller. Technical training modules for Spyder Sylk Enhanced and other Honeywell commercial products are added frequently, so check back often.

To begin, visit customer.honeywell.com/learning.



SMART FOR NOW. SMART FOR THE FUTURE.

Honeywell Spyder Sylk Enhanced 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 Sylk Enhanced controllers will give you cost-efficient control for years to come.

OS #	DESCRIPTION
PUL6438S	Programmable Unitary Controller
PVL6438NS	Programmable VAV Controller
PVL6436AS	Programmable VAV Controller With Actuator

LEARN MORE

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

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