Spyder

Evolved.
The System You Need For Flexibility.

The Widest Web Is Built On WEBs-AX™

Honeywell WEBs-AX™ offers an affordable, integrated and open building control system. WEBs-AX is a state-of-the-art, web-enabled building information solution that provides the platform for Spyder® controllers, which give your project amazing flexibility. The entire system is internet-based, so all you need for access is a browser. With the WEBs-AX platform and strength of Spyder controllers, you’ll have the versatility to choose from a collection of best-of-class control products ready to evolve and meet all of your building needs.

WEBs-AX System Integration
Adapting to Any Environment

Spyder controllers are designed to meet the demand of today’s systems and whatever is coming tomorrow. By offering a wide range of models and point counts, Spyder is ready to support comprehensive building control requirements including:

- Plant Room Control
- Fan Coil Unit Control
- Air Handling Unit Control
- Variable Air Volume Box (VAV) Control
- Packaged Unit Control
- Heat Pump Unit Control

Spyder controllers have been loaded with plenty of inputs and outputs and built-in DC power. When an installation requires fewer inputs and outputs, you can choose the Spyder Micro. The compact size allows for mounting in tighter environments. If you are looking to save time on install, while using a relay, Spyder with Relays has the relay built into the computer board. And with improved programming flexibility, each model will continue to meet your needs as systems are upgraded.

The Open System Advantage

Flexibility is a hallmark of Spyder controllers. You won’t be locked into a closed system. Instead, the LonWorks® and BACnet® protocols provide the openness and interoperability to use Spyder controllers with other devices using the same protocols.
Spyder Extends the Web of WEBs-AX
The Zio® LCD Wall Module

The Zio® LCD Wall Module lets you control your Spyder like never before. The Zio Plus offers scheduling control, while the Zio and Zio Plus both offer balancing and the option for humidity control — directly from the wall unit.

Almost any variable in the controller can be viewed and modified directly from this easy-to-use, easy-to-install wall module. The Zio customizable display gives end-users a meaningful home screen by configuring to their specific application and preference. And it’s two-wire, polarity insensitive bus simplifies wiring and frees up crucial inputs and outputs.

The Zio Lite is designed to help you win more bids. Available with and without a display, the Zio Lite lets you be a part of more jobs. With models that cover basic temperature control to advanced demand control ventilation, with its integrated CO₂ sensor, there is a Zio Lite model for every application. All Zio wall modules are Sylk™-enabled to save you time on installation.

TR20 Series Wall Modules

The wireless and direct-wired wall modules in the TR20 family integrate seamlessly with a wide range of controllers, including Spyder Sylk-enabled. Both versions add fully programmable building automation control, and the wireless models eliminate the hassles and costs of wires and conduits while also making sensor relocation a breeze. Count on the TR20 wall modules for the accurate temperature readings and reliability you’ve come to expect from Honeywell sensors.

Reveal™ Touch Screen

Reveal literally puts the Spyder right at your fingertips with a high-definition, full-color LCD touch screen display for easy access to parameters, monitoring status, setpoint adjustments and overrides. Built on the Niagara AX Framework®, Reveal interfaces seamlessly with all WEBs-AX controllers making information accessible from all systems connected to these controllers.
Spyder Delivers More Powerful Control

A Web With Incredible Strength and Flexibility

PROGRAMMABLE
Spyder offers improved application flexibility for faster programming that can be used on a wider variety of equipment. So you have the ability to create almost any application — from a small rooftop unit to a large chiller or boiler plant room.

REMOVABLE TERMINAL STRIPS
Service and wiring of the Spyder is fast and easy, and removable terminal strips enable wiring even when the controller is mounted in hard-to-reach locations. All you need to do is simply unplug the terminals with the wires, replace the controller and plug the wires back in.

INTERNAL REAL-TIME CLOCK
Get unheard of power in a unitary controller. With Spyder, there is no need to add a separate timing device — a clock is built right in. Even if your network schedule goes down, Spyder can have a backup schedule in every device.

INTERNAL DC POWER SUPPLY
Spyder controllers come with an internal DC power supply that saves you both the expense of external power and added wiring when there are additional power needs for things like CO₂ or humidity sensors.

ADAPTIVE INTEGRAL ALGORITHM CONTROL
Adaptive Integral Algorithm (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.
**Sylk Bus Saves I/Os**

Sylk is a two-wire polarity-insensitive in bus that lets you connect a Sylk-enabled device to Spyder without using I/O points. Instead of using analog inputs for temperature sensors, you can simply use Sylk and save the I/O for controlling other devices.

**Sylk I/O**

Connected via the Sylk bus, the Sylk I/O Module is one Sylk-enabled device that expands a single Spyder controller’s I/O count by 8-12 points. By using the existing Spyder controller’s wire sheets for programming, Sylk I/O offers local and remote installation ease and flexibility all while expanding the web of opportunity.

**ILC Models Redefine Openness**

Spyder individually licensed controllers (ILC) can be programmed from any brand NiagaraAX Framework® platform regardless of the brand of workstation/controller.

**Easy VAV Balancing**

Spyder controllers use a Zio wall module or Honeywell RapidBalance™ for variable air volume box (VAV) balancing. RapidBalance is a stand-alone, easy-to-use, PC-based software program with the ability to perform everything needed to properly balance an VAV system.

**Spyder Micro Wiring Box**

A simple enclosure designed specifically for the Spyder Micro controller, this wiring box is a perfect fit for applications where a single controller requires extra protection or the wiring cannot be exposed.

The Spyder Micro Wiring Box is designed for:
- Screwless controller mounting
- Conduit connections via four half-inch knockouts
- Access to the Controller Service Pin, Service Jack, Controller Status LED and the VAV Air Sensor Bridge with or without the cover
- Compatible with all Spyder Micro controllers (Unitary, VAV — with or without actuator)
<table>
<thead>
<tr>
<th>Controller Model</th>
<th>Communication Protocol</th>
<th>Programmable Type</th>
<th>Universal Input</th>
<th>Digital Input</th>
<th>Analog Output</th>
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* BACnet models BTL listed
* The Universal Input (UI-1*) is user selectable as a fast digital pulse meter

Spyder Individually Licensed Controller (ILC) is a fully programmable controller for any NiagaraAX Framework® platform providing the greatest flexibility for expansion on any NiagaraAX platform.

Find Out More
For more information on Honeywell Spyder® Sylk® enhanced controllers, call 1-800-466-3933 or visit www.beyondinnovation.honeywell.com.

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