

SMARTER CONTROL FROM THE NAME YOU TRUST

Honeywell controllers are an industry standard for a reason: They make buildings work.

Honeywell VAV Controller
Comparison Guide

Honeywell

HONEYWELL VAV CONTROLLERS

From the latest IP capabilities to classic programmability, there's a Honeywell VAV controller for every application – and as the options grow, this guide can help you pick the right model for each job.

	STRYKER	SPYDER CLASSIC VAV	HONEYWELL OPTIMIZER COMPACT VAV	HONEYWELL OPTIMIZER VAV	CIPER MODEL 30 VAV
Integrated Actuator	Optional	Optional	Yes	Yes	No
Replaceable Actuator	Yes	Yes	Yes	No	N/A
Integrated Air Flow Sensor	Yes	Yes	Yes	Yes	Yes
Replaceable Air Flow Sensor	No	No	No	Yes	No
Application	Configurable	Programmable	Programmable	Programmable	Programmable
Primary Communication Protocol	LON BACnet® MS/TP	LON BACnet® MS/TP	BACnet® MS/TP	BACnet® IP BACnet® MS/TP	FOX(S) BACnet® MS/TP* BACnet® IP Modbus RTU* Modbus TCP MQTT SNMP * Requires RS485 USB Adapter
IP Connectivity	No	No	No	IPV4	IPV4 IPV6
IP Ports Network Speed	None	None	None	(2) RJ45 10/100 Mbit	(4) RJ45 10/100/1000 Mbit
IP Switch Daisy Chain Fault Tolerant Loop PKI Certificate TLS Version Firewall BACnet® SC Wireless	No	No	No	Software 100 Devices Requires Managed Switch No None No	Dedicated Chip 100 Devices Yes, Integrated RSTP Yes 1.2 Yes Niagara 4.11
Sylk Wall Module Support	TR7x/120	TR4x/7x/120	TR4x/7x/120	TR4x/7x/120/100	TR4x/7x/120
Sylk Actuator Support	No	No	Sylk Actuator Support (Future)	Sylk Actuator Support	Sylk Actuator Support
Secondary Integration Protocol	None	None	None	Modbus RTU using dedicated RS-485 port	BACnet® MS/TP* BACnet® IP Modbus RTU* Modbus TCP MQTT SNMP * Requires RS485 USB Adapter
On board I/O Total I/O (UI/DI/AO/DO)	8 (4/0/2/2)	0 (0/0/0/0) 8 (4/0/2/2) 19 (6/4/3/6)	9 (4/0/2/3)	0 (0/0/0/0) 12 (7 UI0, 5 SSR)	12 (3/0/3/6)
HOA Switches	No	No	No	No	Yes
Auxiliary power	20VDC, 75mA max	20VDC, 75mA max	20VDC, 75mA max	20VDC, 75mA max	20VDC, 250mA max
I/O expansion	None	Sylk I/O Modules BACnet® model, max 2 Lon model, max 3	None	None	CIPer Model 30 Expansion I/O Modules Max 8 modules Max points limited by license
Operating System	Honeywell Spyder Engine	Honeywell Spyder Engine	Honeywell Honeycomb	Honeywell Honeycomb	Tridium Niagara 4
Tool Palette(s)	Optimizer Workbench honeywellASC	Optimizer Workbench honeywellSpyderTool	Optimizer Workbench honIrm Control	Optimizer Workbench honIrm Control	Optimizer Workbench ipcProgrammingTool Kit Control Standard Niagara Palettes
Balancing Tool - Mobile App	None	None	None	Honeywell Connect Mobile App Balancing Tool with BLE connectivity	None
Balancing Tool - Windows App	RapidBalance	RapidBalance	Global VAV Balancing Tool (Future)	Global VAV Balancing Tool	None
Balancing Tool - Niagara Workbench	Venom Balance Tool	Venom Balance Tool	Venom Balance Tool	None	kitCat Balance tool
Open License	Open License	ILC models have Open License	Driver Available	Driver Available	Open License

Stryker and Spyder Classic product lines both have VAV models with air flow sensors and without integrated actuators. Those models are not included in this chart.

Building Automation

715 Peachtree St NE

Atlanta, Georgia 30308

Buildings.Honeywell.com

BMS-FY-VAVSelectionGuide | 01-00290 | 2024-17-09
© 2024 Honeywell International Inc.