



BUILDING CONTROL **WITH** **FLEXIBILITY** **BUILT IN**

Unitary controllers tailored to your building's
operational strategy, now and in the future

Unitary Controller
Selection Guide

Honeywell

SELECTING A UNITARY CONTROLLER

From basic onsite unitary control to the latest Optimizer IP controllers, Honeywell provides the tools to improve building performance.

| | STRYKER UNITARY ¹ | SPYDER CLASSIC UNITARY ¹ | SPYDER MODEL 5 UNITARY | OPTIMIZER UNITARY | CIPER MODEL 30 UNITARY |
|---|---|---|--|---|---|
| PRICE | \$ | \$ \$ | \$ | \$ \$ | \$ \$ \$ |
| 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 |
| IP Connectivity | No | No | No | IPv4 | IPv4 / IPv6 |
| IP Ports Network Speed | None | None | None | (2) RJ45 10/100 Mbit 10BASE-T1L | (4) RJ45 10/100/1000 Mbit |
| IP Switch Daisy Chain Fault Tolerant Loop | No | No | No | Software 100 Devices Requires Managed Switch | Dedicated Chip 100 Devices Yes, Integrated RSTP |
| PKI Certificate TLS Version Firewall BACnet SC | No | No | No | No None No Future | Yes 1.2 Yes Niagara 4.11 |
| Secondary Integration Protocol | None | None | None | Modbus RTU using dedicated RS-485 port | BACnet MS/TP* BACnet IP Modbus RTU* Modbus TCP MQTT SNMP |
| Wireless | No | No | No | Optional BLE / Checkout App (Future) Wi-Fi (Future) | No |
| Sylk™ Wall Module Support | TR7x/ 120(E) ² /50-3x(E) ² | TR4x/7/ 120(E) ² /50-3x(E) ² | TR4x/7/ 120(E) ² /50-3x(E) ² | TR4x/7x/ 120(E) ² /50-3x(E) ² | TR4x/7x/ 120(E) ² /50-3x(E) ² |
| Sylk™ Actuator Support | No | No | Future | Yes | Yes |
| 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) | 14 (4/0/4/6) 24 (10/0/6/8) | 16 (8 UIO, 8 DO) 24 (16 UIO, 8 DO) | 12 (3/0/3/6) |
| HOA Switches | No | No | No | No | Yes |
| Auxiliary power | 20VDC, 75mA max | 20VDC, 75mA max | 24VAC, 600mA max Hot terminals Protected with internal non-replaceable fuse | 1 x 24VAC @ 75mA 3 x 24VDC @ 75mA | 20VDC, 250mA max |
| Expansion I/O | None | Sylk I/O Modules BACnet Model, Max 2 Lon Model, Max 3 | None | Future | 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 | Niagara Workbench |
| Niagara Workbench Tool Palette(s) | Niagara Workbench honeywellASC | Niagara Workbench honeywellSpyderTool | Niagara Workbench honIrm Control | Niagara Workbench honIrm Control | Niagara Workbench ipcProgrammingTool Kit ControlStandard Niagara Palettes |
| Open License | Open License | ILC models have Open License | Driver Available | Future | Open License |

¹ 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.

² (E) supported by emulation only.

* Requires RS 485 USB Adapter.

Honeywell Building Technologies

715 Peachtree St NE

Atlanta, Georgia 30308

Buildings.Honeywell.com

BMS-FY-OptimizerUnitaryController-SG | 01-00345 | 2023-03-03
© 2023 Honeywell International Inc.