



POWERED BY
SEDONA
 FRAMEWORK™

BACnet

WiFi

UL US
 LISTED
 E76576

25 Point WIFI BACNet/IP & Sedona Controller

Solidyne's SAM-25 is the latest generation Universal Programmable Controllers leveraging BACNet/IP communications standard. Offering WIFI and Ethernet connectivity, along with Sedona wiresheet programming interface.

With (7) universal inputs, (2) digital inputs, (8) Form C relay outputs (4) Triac outputs and (4) analog outputs built-in, the SAM can handle any HVAC application with ease.

Armed with a 1Ghz ARM Cortex-A8 processor, 512mb of RAM and 4GB or on-board memory...The SAM family of controllers are the most powerful in their class.

The IP connectivity of the SAM family of controllers allows them to pull RSS/XML weather data feeds from online sources for real time weather, reducing costs of outdoor air temp/humidity sensors and improving accuracy.

Specifications

Power Requirements

Input Voltage: 23 to 28 VAC 50/60 Hz
 Consumption: 12 VA (with USB WIFI module)
 Input Voltage Fuse: Resettable fuse rated at 1.1A at 24VAC

Inputs/Outputs

Universal Inputs:

Seven (7) Universal Inputs
 Can be independently configured for thermistor*, digital, 0-10vdc or 0-20mA, and RAW.

* Thermistor Inputs are 3k, 10k (type 3) thermistor

Digital Inputs:

Two (2) digital inputs for reading status or pulse meters (dry contact only)

Analog Outputs:

Four (4) 0-10vdc Analog Outputs*.

* Can drive down to 10Kohm loads at 10vdc

Relay Outputs:

Eight (8) Relay Outputs, Form (C) 3 Amp relays with HOA (Hand-Off-Auto) slide switches on-board

Triac Outputs:

Four (4) Triac Outputs (24VAC/1 Amp only)

Specifications cont'd:

Operating Environment

Temperature: 32 to 158 F (0 to 70 C) *
 Humidity: 20-90% Relative, noncondensing **

* Storage Temperature: -10 to 158 F (-23 to 70 C)
 ** Storage Humidity: 0-95% Relative, noncondensing

Network Communication

Method: Ethernet or WIFI
 Protocols: BACNet/IP, Sedona, SMTP, NTP, SSH, SFTP
 WIFI Standards: 802.11 a/b/g/n

Physical Dimensions

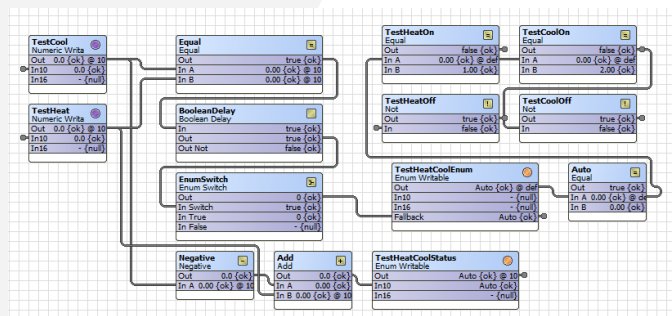
Height: 70 mm (2.75 in)
 Width: 78 mm (3.0 in)
 Length: 160 mm (6.3 in)
 Mounting Holes: 148.5 mm (5.85 in) Center to Center
 Weight: 1.2 lb

Agency Approvals

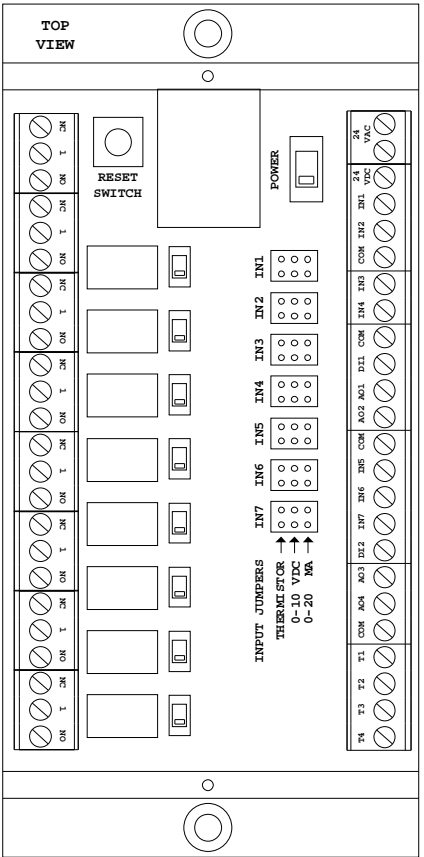
Listed Device: UL Listed under E76576 24G9



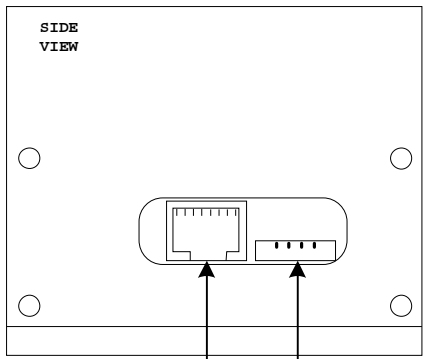
Pending: BACnet Testing Laboratories (BTL)



- NORMALLY CLOSED 1
- RELAY 1 (FORM C, 3 AMP) 2
- NORMALLY OPEN 3
- NORMALLY CLOSED 4
- RELAY 2 (FORM C, 3 AMP) 5
- NORMALLY OPEN 6
- NORMALLY CLOSED 7
- RELAY 3 (FORM C, 3 AMP) 8
- NORMALLY OPEN 9
- NORMALLY CLOSED 10
- RELAY 4 (FORM C, 3 AMP) 11
- NORMALLY OPEN 12
- NORMALLY CLOSED 13
- RELAY 5 (FORM C, 3 AMP) 14
- NORMALLY OPEN 15
- NORMALLY CLOSED 16
- RELAY 6 (FORM C, 3 AMP) 17
- NORMALLY OPEN 18
- NORMALLY CLOSED 19
- RELAY 7 (FORM C, 3 AMP) 20
- NORMALLY OPEN 21
- NORMALLY CLOSED 22
- RELAY 8 (FORM C, 3 AMP) 23
- NORMALLY OPEN 24



- 1 24VAC HOT
- 2 24VAC NEUTRAL
- 3 +24 VDC OUTPUT (500mA)
- 4 INPUT 1 (THERMISTOR, 0-10VDC, 0-20mA)
- 5 INPUT 2 (THERMISTOR, 0-10VDC, 0-20mA)
- 6 I/O COMMON
- 7 INPUT 3 (THERMISTOR, 0-10VDC, 0-20mA)
- 8 INPUT 4 (THERMISTOR, 0-10VDC, 0-20mA)
- 9 I/O COMMON
- 10 DIGITAL INPUT 1 (DRY CONTACT, PULSE)
- 11 ANALOG OUTPUT 1 (0-10VDC)
- 12 ANALOG OUTPUT 2 (0-10VDC)
- 13 I/O COMMON
- 14 INPUT 5 (THERMISTOR, 0-10VDC, 0-20mA)
- 15 INPUT 6 (THERMISTOR, 0-10VDC, 0-20mA)
- 16 INPUT 7 (THERMISTOR, 0-10VDC, 0-20mA)
- 17 DIGITAL INPUT 2 (DRY CONTACT, PULSE)
- 18 ANALOG OUTPUT 3 (0-10VDC)
- 19 ANALOG OUTPUT 4 (0-10VDC)
- 20 I/O COMMON
- 21 TRIAC OUTPUT 1 (24VAC ONLY)
- 22 TRIAC OUTPUT 2 (24VAC ONLY)
- 23 TRIAC OUTPUT 3 (24VAC ONLY)
- 24 TRIAC OUTPUT 4 (24VAC ONLY)



ETHERNET PORT USB PORT (WIFI)