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**SEDONA**  
 FRAMEWORK™



**8 Point WIFI BACNet/IP & Sedona Controller**

Solidyne's SAM-8 is the latest generation Universal Programmable Controllers leveraging BACNet/IP communications standard. Offering WIFI and Ethernet connectivity, along with Sedona wiresheet programming interface.

With (4) universal inputs and (4) Triac output built-in, the SAM can handle any small equipment 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: 6 VA (with USB WIFI module)

**Inputs/Outputs**

**Universal Inputs:**

Seven (4) Universal Inputs  
 Can be independently configured for thermistor\*, digital, 0-10vdc or 0-20mA, and RAW.

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

**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**

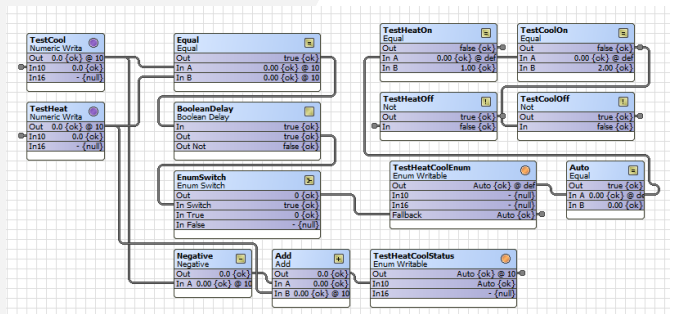
Height: 70 mm (2.75 in)  
 Width: 78 mm (3.0 in)  
 Length: 160 mm (6.3 in)  
 Mounting Holes: 148.5 mm (5.85 in) Center to Center  
 Weight: 1.2 lb

**Agency Approvals**

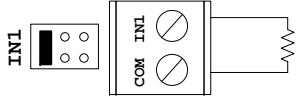
Listed Device: UL Listed under E76576 24G9



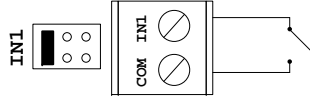
Pending: BACnet Testing Laboratories (BTL)



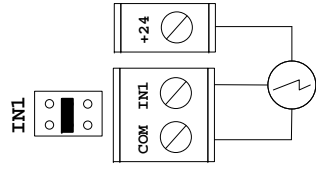
WIRING EXAMPLES:



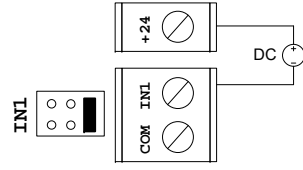
THERMISTOR



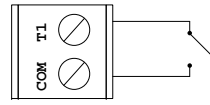
DIGITAL INPUT



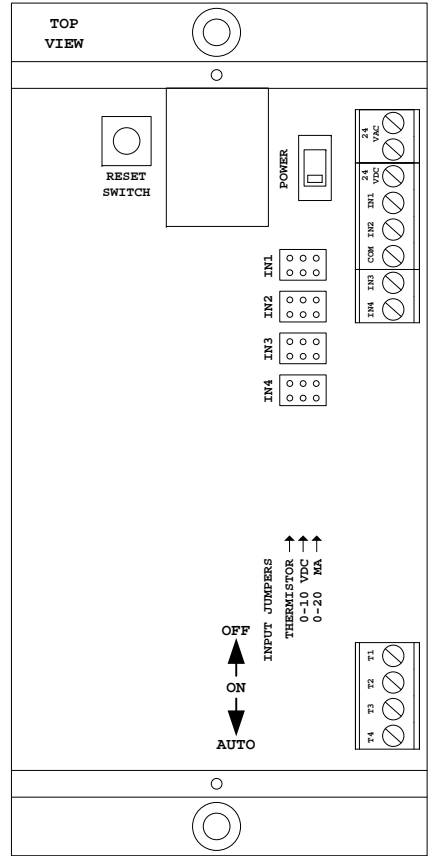
0-10V INPUT



0-20MA INPUT

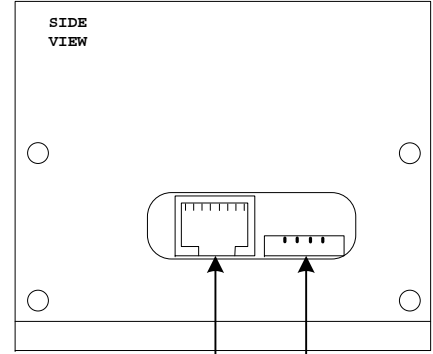


TRIAC OUTPUT  
(24VAC ONLY)



- 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)

- 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)