SWN-WIO

Wireless Input and Output Module



The **SWN-WIO** is a wireless, multi-function, DIN rail-mounted Input/Output module that integrates many sensory devices and load control capabilities with SiteWorx Sense.

To integrate sensory devices, the SWN-WIO supports Modbus devices such as Airborne Particle Counters, Air Quality Monitors, Differential Pressure Sensors, Flow Sensors, Accelerometers, Gas Sensors, and more.

In addition, the SWN-WIO supports analog sensors, probes, and noise-level sensors.

Relay control and power load control support are capabilities included and easily implemented.

The SWN-WIO is a robust, multi-function, smart device that connects diverse equipment, sensors, and more — bringing insights and actions to SiteWorx Sense.

Date:	
Quantity:	
Company:	
Project:	

SiteWorx Application

SiteWorx Sense



Key Features & Benefits

- Native Modbus Support utilize serial Modbus-enabled sensors and monitoring devices within SiteWorx Sense. Devices such as Airborne Particle Counters, Air Quality Monitors, Differential Pressure Sensors, Flow Sensors, Accelerometers, Gas Sensors, and more are supported
- Provides native 0-10V and 4 to 20 mA compatibility to interface with a variety of industrial sensors, relays, and load control devices — reducing integration costs and installation complexity
- Monitor facility environment, optimize processes, or better understand line-level cost allocation through real-time data
- Dramatically reduce reporting time by automating auditable, secure, and unalterable record storage and reporting
- Enables SiteWorx® Sense to monitor sensory data and environmental conditions from a variety of compatible sensor types
- Incorporates and extends the SiteWorx wireless mesh network



Specifications

SENSING AND CONTROL

Smart Device Integration

 Allows integration of a wide-range of supported analog sensor types to monitor operational status of equipment, environmental conditions, air quality, volumetric flow and more

Load Control

 Enables automated load control for motors, fans, and other facility equipment

Network Communication

SiteWorx Wireless Mesh Network
 IEEE 802.15.4 enabling communication with
 SiteWorx Smart Devices

Technology Platform

 Incorporates and extends the SiteWorx wireless mesh network

PERFORMANCE

Analog Measurement Accuracy

- Voltage mode ±2%
- Current mode ±2%

Sampling Rate

• 1 sample / minute default

Sample Interval

• 1 to 5 minute (5 minute default)

Sampling Resolution

• 12-bit

ELECTRICAL

Input Voltage

• 120 to 277 VAC or 24 VDC (Class 2)

Input Power Consumption

0.5 W quiescent, 4 W maximum

Surge Protection

• Per IEC60730

Analog Inputs

• (2x) 4 to 20 mA / 0 to 10 VDC

Analog Input Voltage (in Voltage Mode)

• 0 to 24 VDC (1.5V in 4 to 20 mA mode)

Relay Output

• Switch relay up to 60V, 0.5A

Auxiliary Output

• 24 VDC, 2.75 W maximum

Serial Port

• Electrically isolated RS-485

ENVIRONMENTAL

Operating Temperature

• -20° to 50°C (-4° to 122°F)

Operating Humidity

• 0% to 95%, non-condensing

PHYSICAL

Enclosure

PC plastic

Dimensions (H x W x D)

• 107 x 91 x 58 mm (4.2 x 3.6 x 2.3 inches)

Weight

• 224 g (7.9 oz)

Mounting Option

• DIN Rail Mount — 35 mm (1.4 inches)

WARRANTY

• 5-Year Limited

CERTIFICATIONS & SAFETY

Approbations

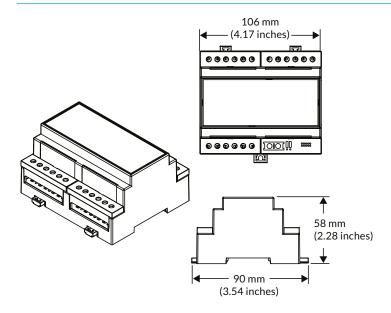
• UL/cUL, UL-NOM (pending), CE, FCC Part 15 Class B

Environmental Suitability

• IP20





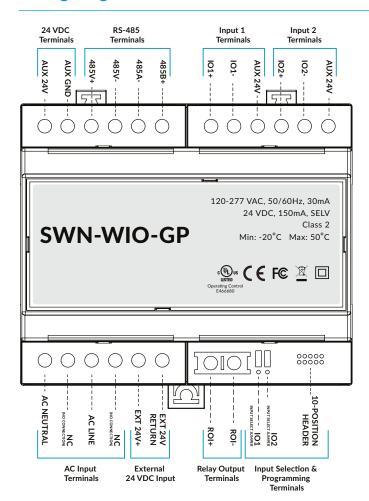


Ordering Information

Part Number

SWN-WIO-GP

Wiring Diagram



Mounting Option

DIN Rail Mount



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