

SiteWatch+ User Manual August 2021







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1. Contact Information

For inquiries, questions and information not covered in this user manual please use the contact information in this section for additional assistance from C² Systems.

1.1. Technical Support

Phone: (888) 677-2405 Email: <u>siteportal.support@csquaredsystems.com</u>

1.2. Sales Support

Phone: (603) 644-2800 Email: <u>siteportal.sales@csquaredsystems.com</u>

2. Introduction

SiteWatch+[™] is a high quality, high performance, cost-effective RTU. It offers remote monitoring, alarming and connectivity of legacy devices, environmental sensors and other passive devices at remote locations. The SiteWatch+ is a flexible solution for the management and security of remote sites. Each of its fully isolated digital inputs with individually programmable contact wetting voltage sources and support for both wet and dry contacts handle a wide range of contact closure monitoring needs while avoiding ground loops and other grounding problems that plague other devices.

SiteWatch+ supports modern networking technologies such as IPv6, SNMP including SNMPv3 and Northbound trap destinations for both IPv4 and IPv6 hosts, with an allowance of up to eight distinct destinations per IP version. SiteWatch+ also supports a user configurable dual-stack network interface allowing connectivity over both IPv4 and IPv6 simultaneously.



2.1. Safety notice

WARNING - ELECTROCUTION RISK



Please exercise caution! Never work on a system that is powered on! Working with electrical components in an improper fashion could cause permanent injury, property damage, DEATH, or any combination of these outcomes. Interaction with electrical components, devices, sensors, wires, etc. must be left to properly trained professionals only.



2.2. Specifications



Figure 1: SiteWatch+ Module

		PHYSICAL & ENVIRONMENTAL
Dimensions		8" L x 4 3/8" W x 2 3/8" H
Weight		<1lb
Mounting		Din-Rail, Wall/Panel mount with screws
Enclosure Material		Poly-carbonate Resin, ul, listed
Operational and Stor	age Temperature	-20° to 85°C (-4° to 185°F)
Humidity Range		10% to 90% RH Non-Condensing
Enclosure Rating		IP31
		ANALOG INPUTS
Quantity		2
Resolution		16-bit
Input Range	0-1	0V, 0-60V. 4-20mA current loop, (10KΩ) NTC Thermistor
Input Selection		Software controlled, per sensor
Protection		Lightning, Static
Offset		Gain/Offset settings for each input
Accuracy		±0.1%
Zero Drift		0.02 LSB/°C
Connector		RJ-45, 1 sensor per two pins
		DIGITAL (CONTACT CLO SURE DETECTION) INPUTS
Quantity		12
Isolated Eac	h has its own fully i	solated supply for contact wetting voltage. Onto-isolated
Range		+3VDC to +60VDC (for wet mode)
Input Mode		Dry Contact (open-collector), Wet Contact
Mode Selection		Software controlled, per sensor
Connector		RJ-45, 1 sensor per two pins
		RELAY OUTPUT
Quantity		2 relays: 5VDC up to 2W, 12VDC up to 2W
Rating		5A @ 125VAC or 1A @ 60VDC
Type		Form-C
Connector		Terminal Block
		OUTPUT POWER
5V Rating		2W
12V Rating		2W
-		
		INPUT POWER
Range		+12 to +60 VDC
Reverse Polarity Pro	tection	Yes
Power Supply		DC Isolated
Power Connection		Separate Ground Connection
Power Consumption		<600mw
		ETHERNET
Speed		10/100 Mbps
Port Types		RJ-45 and RS-232
Protocol		Modbus TCP
		SERIAL INTERFACES
Types		RS-485: RS-232
Protocol		Modbus RTU
		\$NMD
Versions		SHMP stude ut
Features		V1, V2C, V3
1 2010123		conserve tooming, controlly, alarm coning, northbound traps



2.3. Sensor Connections

Your SiteWatch+ has various types of connections on it available for use. What follows outlines these connections and provides detail on their function.

Contact Closures

Your SiteWatch+ supports up to 12 isolated and individually grounded contact closures. Contact closures on SiteWatch+ are vastly improved from SiteWatch. Each contact closure is isolated from each other, eliminating the potential for ground loops across the different closures. Another improvement over SiteWatch is that each contact closure is individually grounded, where SiteWatch has several contact closures that share grounds; this problem is eliminated with SiteWatch+. Further, the selection of Wet or Dry contacts is achieved through software control, with no internal jumpers to set with SiteWatch+. For each contact closure, the wet/dry setting can individually be set versus just one setting for all contact closures as is the case for SiteWatch. Software control of these sensors is achieved through changing settings in the SitePortal® Properties Canvas, more details on this below in <u>Section 6.1.3</u>.

Contact closures on SiteWatch+ are connected to via the RJ-45 I/O connections on the front. Any stripped Ethernet patch cable can be employed for this connection, so long as it is rated Cat5 or newer. On the patch cable, two wires indicate one contact closure, with positive and negative polarity for the one contact closure. Please utilize the below diagrams when wiring contact closure connections to SiteWatch+, and associated punch-down blocks (if required).









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Analog Sensors

Your SiteWatch+ supports up to 2 analog inputs. The analog inputs each are isolated from each other and each input is individually grounded. The analog inputs have several input modes, and these modes are changed via software, from the SitePortal® properties canvas, instead of SiteWatch's jumper implementation. See <u>Section 6.1.4</u> for more details on configuration.

Analog inputs on SiteWatch+ are connected to via the RJ-45 I/O connections on the front. Any stripped Ethernet patch cable can be employed for this connection, so long as it is rated Cat5 or newer. On the patch cable, Please refer to Figure 5 below when wiring analog input connections to SiteWatch+, and associated punch-down blocks (if required).

The following are supported modes with examples:

- 1. Voltage:
 - o 0 10V
 - o 0 60V
 - Example: Fuel sensors, power plant output monitoring, etc.
- 2. Current Loop:
 - o 0 20 mA
 - Example: Certain fuel sensors, monitoring current for low power devices.
- 3. Thermistor:
 - o Thermistor Fahrenheit
 - Thermistor Celsius
 - Supported sensor parameters:
 - Resistance: 10KΩ
 - Type: Negative Temperature Coefficient (NTC) thermistor.
 - B25/85 (commonly 'B-Value'): 3435K
 - Part recommendation:
 - Tewa Sensors, part number TT02-10KC8-T105-1500
 - Available for placement in your order upon request.



Images © 2021, C Squared Systems, LLC.

Figure 5: Analog Input and RJ-45 Connector Pinouts

Relay Outputs

Watch -

Your SiteWatch+ has 2 type-C relays on-board, each of which support Normally Open (NC), Common (C) and Normally Closed inputs. Relays are connected to at the rear of the unit using traditional terminal block connectors. Your included C Squared Systems reversible screwdriver can be used to secure connections into these connectors. Endpoints can be connected as Normally Open (NO) or Normally Closed (NC). Common use-cases for relay outputs are connections to Generator start relays. Please refer to <u>Section 2</u> for information on relay limitations and to obtain information about acceptable loads.

Relays can be configured in the Properties canvas of SitePortal®, including settings for normal states, and the ability to change relay states (or flip the relay) from Inactive or Active.



Power Outputs

Your SiteWatch+ has two power outputs at the rear of the unit to drive low-power devices in the shelter, power sensors, etc. There is one 5VDC and one 12VDC output, each are connected to via traditional terminal block connectors. Please refer to <u>section 2.1 Specifications</u> for more details on output limitations.

RS232, RS485, and 1-Wire

Your SiteWatch+ supports additional inputs that communicate via the RS-232, RS-485, or 1-Wire protocols. These inputs are connected to the appropriate RJ-45 jack on the front of the unit. The on-board Modbus gateway can be utilized to monitor attached devices for RS-232 and RS-485. There is currently no direct support to monitor these sensor types from SitePortal®

As of May, 2021, 1-Wire support is a work in progress feature, to later work with an indevelopment hardware addition known as SiteSense.

In the below example, 'B' signifies 'Bottom'. This means the bottom connector on the Ethernet/Serial shared connection port.



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Figure 6: RS232, RS485, 1-Wire Sensor and RJ-45 Connector Pinouts



2.4. Front LED Descriptions

On the face of your SiteWatch+, there are four LEDs to communicate the status of the unit and give basic insight into alarms if you are looking at the device. The logic per LED is as follows:

- 1. Status LED (Blue)
 - 1.1. System heartbeat blinks once per second under normal conditions
 - 1.2. Upon factory reset button being pressed:
 - 1.2.1. Solid for 5 seconds, blinks quickly when you can let go.
 - 1.3. Upon entering firmware update mode, blinks rapidly.
- 2. Alarm LED (Red)
 - 2.1. If there are no alarms, this LED is off.
 - 2.2. This LED will blink up to five times in quick succession with a two second pause in between each batch. Each blink indicates only one alarm.
 - 2.3. If there are more than five alarms raised, this LED will be on solid.
 - 2.4. For insight into the alarms, you must visit the alarms canvas of SitePortal®.
- 3. ETH SPEED (Yellow)
 - 3.1. Off for a 10Mbps connection
 - 3.2. On for a 100Mbps connection
- 4. ETH ACTIVITY (Green)
 - 4.1. Blinks where there is network activity over Ethernet.

2.5. Factory Reset Instructions

SiteWatch+ has a factory reset feature. The factory reset button is externally accessible through the left side of the case and could be pressed with a paper clip or other small, sturdy object.

Please exercise caution when physically resetting your SiteWatch+, improper interaction could cause physical damage to the reset switch inside the SiteWatch+.

Factory Default Settings:

- 1. IP Address: 192.168.1.253
- 2. Subnet Mask: 255.255.255.0
- 3. Gateway: 192.168.1.254
- 4. IP Mode: IPv4 only
- 5. All SNMP trap settings will be reset; trap destinations will be removed.
- 6. All sensor thresholds and configurations set on the system will be reset to default values.
- 7. Previously enabled sensors **will** become disabled upon factory reset, requiring you to reenable them.



3. Setting up SiteWatch+ for SitePortal®

3.1. Introduction

SiteWatch+ communicates via SNMP. As such, it does not have its web-based user interface. Instead, to configure the network and SNMP settings on SiteWatch+, C Squared Systems provides a graphical application for Microsoft Windows machines. This application can be found in the Documentation section of your SitePortal environment. Housed under the SiteWatch+ folder, you will find a zip file called 'SiteWatch+-Config-Program.zip' available for you to download.

To download the Application from SitePortal®:

- 1. Login to SitePortal®.
- 2. In the Toolbar click **Documents**.
- 3. Locate the SiteWatch+-Config-Program.zip archive in the Document Explorer.
- 4. In the Documents area, click the **Download File** button in the **Action** column.
- 5. Save the file on your personal computer.
- 6. Unzip the file before launching the application.
- No installation is required after extraction, simply run the included executable named SiteWatchPlusUI.exe

3.2. Configuring your SiteWatch+ Network and SNMP Settings

- Connect an Ethernet cable from your computer to your SiteWatch+.
- Change your PC's Ethernet settings so your IP address is in the **192.168.1.0/24** subnet.
 - Recommended settings:
 - PC IP: 192.168.1.254
 - PC Subnet Mask: 255.255.255.0
 - PC Gateway: Leave blank or enter SiteWatch+'s default IP address of 192.168.1.254
- Once your PC network has been set, enter in the default IP address into the configuration program, with **Port 9760**, and click connect.

C SiteWatch	Plus IP Config	UI v1.0.0.5		_		\times
Support A	bout					
Connection						_
IP Address:	192.168.1.25	3		C	Connect	
Port:	9760	*				
System Config	guration					
ê 2↓	22					
Enter Upg	grade	Reboot	Refresh		Save	

Figure 7: SiteWatch+ Configuration Program

• Once connected, you will be greeted with a tree structure representing the network and SNMP configuration parameters available to be set.



- Upon entering in settings, click 'Save' to write the config to the SiteWatch+.
 - **Note:** a reboot of the system is required to apply any configuration changes. Utilize the 'Reboot' button at the bottom of the configuration program.

Image: State Stat	Syste	m Configuration	
Misc IPV4_Address 192.168.1.253 IPV4_Aletmask 255.255.25.0 192.168.1.254 IPV6_Address fde4:3dba:82e1:: 64 IPV6_Address fde4:3dba:82e1:: 192.168.1.254 IPV6_Gateway :: 192.168.1.254 IPV6_Tage IPV4 SNMPTosteol Type SNMPTotocolType SNMPV3_AES_PRIV AuthPassword authpublic NPV4_stassword authprivate IPV6_Trap_Receivers (Collection) IPV6_Trap_Receivers	•	2↓ □	
IPCorfig IPV4_Address 192.168.1.253 IPV4_Netmask 255.255.250 IPV4_Gateway 192.168.1.254 IPV6_Address fde4:8dba:82e1:: IPV6_Cateway :: IPV6_Cateway :: IPV5_PrefixLen 64 IPV6_Cateway :: IP_Type IPV4 SNMPCorfig 2 CommunityName public WriteSting private EngineID 80-008A-85-03-68-27-19-D8-2F-0F SecurityLevel AUTH_PRIV AuthProtocolType SNMPV3_HMAC_SHA1 PrivProtocolType SNMPV3_AES_PRIV usemane admin AuthPassword authpublic IPV6_Trap_Receivers (Collection) IPV6_Trap_Receivers (Collection)	~	Misc	
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IPV6_Address fde4:8dba:82e1:: IPV6_Sterway :: IPv7 :: IPv2 :: IPv2 :: IPv3 :: IPv2 <td::< td=""> IPv2 <td::< td=""> IPv2 <td::< td=""> IPv3 <td::< td=""> IPv3</td::<></td::<></td::<></td::<></td::<></td::<></td::<></td::<>		IPV4 Gateway	192.168.1.254
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CommunityName public WriteString private EngineID 80-00-8A-85.03-68-27-19-D8-2F-0F SecurityLevel AUTH_PRIV AuthProtocolType SNMPV3_HMAC_SHA1 PrivProtocolType SNMPV3_AES_PRIV Usemame admin AuthPassword authpublic PrivPassword authpublic > IPV4_Trap_Receivers (Collection) > IPV6_Trap_Receivers (Collection)		SNMP Version	2
WriteString private EngineID 80-00-8A-85-03-68-27-19-D8-2F-0F SecurityLevel AUTH_PRIV AuthProtocolType SNMPV3_HIMAC_SHA1 PrivProtocolType SNMPV3_AES_PRIV Jusemane admin AuthPassword authpublic PrivPraconfig Collection) > IPV4_Trap_Receivers (Collection) > IPV6_Trap_Receivers (Collection)		CommunityName	public
EngineID 80-00-8A-B5-03-68-27-19-D8-2F-0F SecurityLevel AUTH_PRIV AuthProtocolType SNMPV3_HMAC_SHA1 PrivProtocolType SNMPV3_AES_PRIV Usemame admin AuthPassword authpublic PrivPassword authprivate > SNMPTrapConfig (Collection) > IPV4_Trap_Receivers (Collection) > IPV6_Trap_Receivers (Collection)		WriteString	private
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Enter Upgrade Reboot Refresh Save			
Enter Upgrage nepoot Kefresh Save		Datas Us surada Data at	Defeat
	E	enter Upgrade Reboot	Refresh Save

Figure 8: SiteWatch+ Configuration Program displaying default parameters



4. Mounting Instructions

Your SiteWatch+ can be mounted to a wall using the four (4) supplied screws using the screw holes on the corners of the base of the unit.

If you requested in your order to include DIN rail mounts, included with your SiteWatch+ is a two-piece DIN rail mounting kit and four pan-head screws. The mounting solution utilizes the middle eyelet of the wall mount ears on the case of the SiteWatch+.



Figure 9: DIN Rail kit

A recommended first step is to start a screw in the middle screw hole on the DIN rail mount ears. This makes it easy to place it into the middle eyelet of the wall mount ears and work with adding a second screw to firmly secure the mount in place. Work carefully and slowly to match up the DIN rail mounts on both sides of the case.

Following attachment of the mounts, the SiteWatch+ will be able to clip onto a DIN rail.

Site

Watch+

STATUS

ALARM ETH SPEED on = 100mbps ETH ACTIVITY

Step 1 Drive screws into middle screw holes







Figure 10: DIN Rail kit install



5. Building your SiteWatch+ into SitePortal®

The **Add Device** window allows users to add location and contact information when first integrating a device. Adding this information at integration instead of afterward saves time and immediately makes other key features in SitePortal® available to the user.

- 1. In the Network Tree, click the folder where you want to add your SiteWatch+.
- 2. Right Click on the folder and select **Add Device**. Search for device type 'SiteWatch+'. Fill in your SNMP access info and press 'Build & Scan Device'

All Clients	s «
) Tree	•
lo Filter Selected >	•
Expand Children	LB1Collapse all
Add Device Add Folder	enance Contract
Remove Node(s)	DO NOT DELETE)
 Remove Node(s) Move Node Device Actions 	DO NOT DELETE) Joc Clone
 Remove Node(s) Move Node Device Actions Rebuild Device Launch Web Interface 	DO NOT DELETE) Joc Clone
 Remove Node(s)	DO NOT DELETE) Joc Clone
 Remove Node(s)	DO NOT DELETE) Joc Clone

Figure 11: Add Device

The **Add Device** window will display. In the **Device Information** section enter the following information:

- a. Enter the device name into the Device Name field.
- b. Select "C Squared Systems SiteWatch+" from the **Device Type** dropdown menu.
- c. Complete the fields for each tab in the Add Device window Device Information, Location and Contact Info. *Leave Web UI Username/Password and SNMP settings blank.* Adjust your SNMP port as necessary.



d. Once complete, select Create Device and your SiteWatch+ will be built into SitePortal® and available in the Network Tree

levice	🗴 Build & Scan Device 💌 🤇
Device Info	Scan Status Summary
Device ld:	
Device Name: *	scan interval ():" Retry interval (Min):" Fail Infestiolo."
My SiteWatch	
Device Type:*	SNMP Settings
C Squared Systems SiteWatch+ ×	Version CNUD Darks CNUD Webse
Primary IP Address: *	2c public private
10.10.190.1	Likername:
Secondary IP Address: (Optional)	
Credentials	Port Forward Settings
Web UI Username:	Port forward sectings
	Service From To
Web UI Password:	SNMP: 161 161

Figure 12: Add Device Window

Once you have built your SiteWatch in SitePortal®, the analog inputs, contact closures and relays will be available, but all will be disabled. An informational level alarm will be raised on all inputs of the SiteWatch; these alarms may be acknowledged. The inputs will be grayed out in the tree while disabled.

6. Using SiteWatch in SitePortal®

6.1. The Properties Canvas

Configuring SNMP Trap destinations

On the **main node** of your SiteWatch+ in the Properties canvas, you can set up to 8 SNMP trap destinations for both IPv4 and IPv6 destinations. Each trap destination has an option to enter a community string, and trap destinations are individually enabled in this canvas, per IP version.

C ² Site	$\overline{}$
Watch	+ .

Property	†*		Value	•		New Value
5V ISO Power Control		OFF			(· · · · · · · · · · · · · · · · · · ·
IPv4 Trap Community 1		public				
IPv4 Trap Community 2		None			(
IPv4 Trap Community 3		None				
IPv4 Trap Community 4		None				
IPv4 Trap Community 5		None				
IPv4 Trap Community 6		None				
IPv4 Trap Community 7		None				
IPv4 Trap Community 8		None				
IPv4 Trap Enabled 1		YES			(•
IPv4 Trap Enabled 2		NO			(
IPv4 Trap Enabled 3		NO			(
IPv4 Trap Enabled 4		NO			(
IPv4 Trap Enabled 5		NO			(
IPv4 Trap Enabled 6		NO			(
IPv4 Trap Enabled 7		NO			(•
IPv4 Trap Enabled 8		NO			(
IPv4 Trap Receiver IP Address 1		192.168.11.214				
IPv4 Trap Receiver IP Address 2		None				
IPv4 Trap Receiver IP Address 3		None				
IPv4 Trap Receiver IP Address 4		None				
IPv4 Trap Receiver IP Address 5		None				
IPv4 Trap Receiver IP Address 6		None				
IPv4 Trap Receiver IP Address 7		None				
IPv4 Trap Receiver IP Address 8		None				
IPv6 Trap Community 1		None				

Figure 13: SiteWatch+ Node Properties Canvas - SNMP Trap Destinations

Configuring SNMP Traps per Sensor

SiteWatch+ supports enabling or disabling sending traps upon alarm raise/clear events individually, per sensor. This setting can be accessed in the Properties canvas for each individual sensor.

C ² Site	\sum
Watch	+ .

Property	†≠	Value	-	New Value
Alarm Description		Analog Sensor Alarm		
Alarm High Severity		Major		
Alarm High Threshold		70		
Alarm Low Severity		Major		
Alarm Low Threshold		65		
Alarm Note		Analog sensor is in alarm state.		
Alarm Threshold Deadband		0.1		
Alarm Threshold Units		Raw		•
Alarm Very High Severity		Critical		•
Alarm Very High Threshold		79		
Alarm Very Low Severity		Critical		•
Alarm Very Low Threshold		60		
Enable/Disable		Enable		•
Gain		1		
Mode		Thermistor F		The second seco
Offset		0		
Thermistor Mode		Fahrenheit		
Trap Enabled		YES		•

Figure 14: Per-sensor trap enabled property - Analog Input is shown

Configuring Contact Closures

You can set up the contacts for the devices you are connecting to SiteWatch+. As an example, if you have two contact closures, such as a door open/close and a generator run contact, you can set them up to properly trigger alarms in SitePortal. Note: SitePortal is the only place you can configure these parameters for SiteWatch+.

Wet/Dry Contacts

SiteWatch+ offers support for either Dry (open-collector) contacts or Wetted contacts individually for each contact closure on the system. To define these terms, a Dry contact, which is the most common type of contact closure, carries no voltage with it, therefore it is considered 'Dry'. By default, SiteWatch+ sets all contact closures to work in Dry mode, and this provides 5 Volts of DC power on each contact closure, thereby powering the contact closure you are connecting. Conversely, some contact closures in 'Wet' mode provide no voltage to relevant attached sensors. Refer to your relevant documentation for the sensors you are connecting to verify which mode SiteWatch+ contact closures should be set as.



Property	î*	Value	-	New Value
Enable/Disable	Enabled		(•
Mode	Dry			•
Normal State	Open			Dry Vet
Trap Enable	YES			k

Figure 15: Contact Closure Mode setting in the Properties Canvas

3. For the first example of a door open/close contact, select the Contact Closure 1 in the Network Explorer as shown below:



Figure 16: Selecting a Contact Closure in Network Explorer

Once Contact Closure 1 is selected, navigate to the Properties Panel by clicking the Properties Icon (Figure 25). The Properties Panel displays the properties and values associated with the node selected in the Network Tree.

All Clience (D) - Squared Systems (D) My SiteWatch+ (D) Contact Closures (D) Contact Closure 1										
	terte Desurrentes L		🚱 📮	"A"	E Talant					
III Properties D Property History										
🖉 Nonel 🖉 Constant and Server 🖉 Experience (Server) 🕲 Experience (Server) 🕲										
Category 🕊	Property	7-	Value	*	New Value		Alarm on SitePortal Change		Alarm on Device Change	Upd
🕶 🛅 Main	Enable/Disable	Enabled			•		No Alarm		No Alarm 💌	AnnMaria
Device Information	Mode	Dry			•)		No Alarm 💌		No Alarm	AnnMaria
	Normal State	Open			•		No Alarm		No Alarm 💌	AnnMaria
	Trep Enable	YES							No Alarm	AnnMaria

Figure 17: Properties Canvas



4. To turn on your sensor, you must enable it from the Properties canvas. Click the "Disabled" drop-down in the New Value menu and set it to "Enabled". Click save at the top of the canvas and **scan your SiteWatch**, your changes will not be seen until you scan. You will see the Contact in the tree is no longer grayed out.

All Clients () Testing and Development () Kyle test () SiteWatch+ () Contact Closures () Contact Closure 2									
	à 🗋	Ê	1 21	١Ğı	Ę	– (A.)			
E Properties 𝔅 Property History									
& Write Scancel									
Category 《		Property	†≁		Value	Ψ.		New Value	
🕶 🖿 Main	Enable/Disable			Disabled			Enabled 1	▼)	
Device Information	Mode			Dry			•		
	Normal State			Open				•	
	Trap Enable			NO					
		-	SiteWatch Tree Actions Add Devi Add Fold C Rename/ main Remove I	1+ ice er (Edit Node(s) de ns Device Veb Interfac vice	•				
		Fia	ure 18: Er	nabling a S	 Sensor				



- 6. With the below Figure, for this example we will change:
 - a. The Alarm Description
 - b. The severity of the alarm we will receive
 - c. The Alarm State (when the contact is in this state, we will alarm)
 - d. The Contact Closure's name

I≡ Properties "ℑ Property History					
& Write Scancel				V Clear Filter and Sort	☐ Filter and Sort ▼ ● Export
Category 《	Property	te Value e	New Value	Alarm on SitePortal Change	Alarm on Device Change Upda
🕶 🖿 Main	Alarm Description	Contact Closure Alarm		No Alarm	No Alarm
Device Information	Alarm Note	Contact closure is in alarm state.		No Alarm	No Alarm
	Alarm Severity	Critical	Critical	No Alarm	No Alarm
	Enable/Disable	Disabled		No Alarm	No Alarm
	Mode	Dry	•	No Alarm	No Alarm
	Normal State	Closed	•	No Alarm	No Alarm
	Trap Enable	NO	The second se	No Alarm	No Alarm

Figure 19: Setting Contact Closure Properties

- 7. Select the Alarm Severity for when the contact closure changes to open. In this example we have set the alarm to a Major alarm.
- 8. Click Save Changes.
- 9. For a device that you want to set to Normally Open, such as a generator run contact closure, follow the same steps and keep the Alarm State value set to Open.

	≣	2			Ê	121	н Ö н	è (X,							
Active Ala	arms	History Al	arms	Alarm Rules											
🔉 Ignore		↓ Unignore	🛛 Ackno	owledge 🛛 🖉 A	ck Ticket		iledge 🖉 🔗 Crea	te Ticket 🛛 餐 Add to T	icket 🛛 🕭 Clear Ala	irm More 🕶	🛛 🏹 Clear Fil	er and Sort	幸 Filter and S	iort 🕶 🖉 Se	everity Legend 🔹 🕐
D ID	•	Device	Name	-		Path	-	Description	.	Notes	→ ACK	▼ Se	verity 💌	Rules 🔻	Incident Time 💷
36832633	Cor	ntact Closure 1		All Cli	ients >> Testin	g and Developmen	t >> Kyle test Conta	act Closure Alarm		D.			Critical		05/13/21, 01:51 PM
				>> Sit	re 1	ontact Closures >>	Contact								

Figure 20: Example Contact Closure Alarm



Configuring Analog Inputs

Setting up Analog Inputs is similar to that of Contact Closures. In the below example, we will set up a Thermistor.

1. Select your input in the Network Explorer

 Analog Sensors Analog Sensor 1 Analog Sensor 2 Contact Closures Contact Closure 1 Contact Closure 2 Contact Closure 3 Contact Closure 3 Contact Closure 4 Contact Closure 5 Contact Closure 5 Contact Closure 6 Contact Closure 7 Contact Closure 8 Contact Closure 9 Contact Closure 10 Contact Closure 11 Contact Closure 11 Contact Closure 12 Relays Relay 1 Relay 2 	🔻 🚍 My SiteWatch+							
 Analog Sensor 1 Analog Sensor 2 Contact Closures Contact Closure 1 Contact Closure 2 Contact Closure 3 Contact Closure 3 Contact Closure 4 Contact Closure 5 Contact Closure 5 Contact Closure 6 Contact Closure 7 Contact Closure 7 Contact Closure 8 Contact Closure 9 Contact Closure 10 Contact Closure 11 Contact Closure 11 Contact Closure 12 Relays Relay 1 Relay 2 	🔻 🚍 Analog Sensors							
 Analog Sensor 2 Contact Closures Contact Closure 1 Contact Closure 2 Contact Closure 3 Contact Closure 3 Contact Closure 4 Contact Closure 5 Contact Closure 6 Contact Closure 6 Contact Closure 7 Contact Closure 8 Contact Closure 9 Contact Closure 10 Contact Closure 11 Contact Closure 12 Relays Relay 1 Relay 2 	🚍 Analog Sensor 1							
 Contact Closures Contact Closure 1 Contact Closure 2 Contact Closure 3 Contact Closure 4 Contact Closure 5 Contact Closure 6 Contact Closure 7 Contact Closure 7 Contact Closure 8 Contact Closure 9 Contact Closure 10 Contact Closure 11 Contact Closure 12 Relays Relay 1 Relay 2 	🚍 Analog Sensor 2							
 Contact Closure 1 Contact Closure 2 Contact Closure 3 Contact Closure 4 Contact Closure 5 Contact Closure 6 Contact Closure 7 Contact Closure 7 Contact Closure 8 Contact Closure 9 Contact Closure 10 Contact Closure 11 Contact Closure 12 Relays Relay 1 Relay 2 	🔻 🚍 Contact Closures							
 Contact Closure 2 Contact Closure 3 Contact Closure 4 Contact Closure 5 Contact Closure 6 Contact Closure 7 Contact Closure 7 Contact Closure 8 Contact Closure 9 Contact Closure 10 Contact Closure 11 Contact Closure 12 Relays Relay 1 Relay 2 	🚍 Contact Closure 1							
 Contact Closure 3 Contact Closure 4 Contact Closure 5 Contact Closure 6 Contact Closure 7 Contact Closure 8 Contact Closure 9 Contact Closure 10 Contact Closure 11 Contact Closure 12 Relays Relay 1 Relay 2 	Contact Closure 2							
 Contact Closure 4 Contact Closure 5 Contact Closure 6 Contact Closure 7 Contact Closure 8 Contact Closure 9 Contact Closure 10 Contact Closure 11 Contact Closure 12 Relays Relay 1 Relay 2 	Contact Closure 3							
 Contact Closure 5 Contact Closure 6 Contact Closure 7 Contact Closure 8 Contact Closure 9 Contact Closure 10 Contact Closure 11 Contact Closure 12 Relays Relay 1 Relay 2 	🚍 Contact Closure 4							
 Contact Closure 6 Contact Closure 7 Contact Closure 8 Contact Closure 9 Contact Closure 10 Contact Closure 11 Contact Closure 12 Relays Relay 1 Relay 2 	Contact Closure 5							
 Contact Closure 7 Contact Closure 8 Contact Closure 9 Contact Closure 10 Contact Closure 11 Contact Closure 12 Relays Relay 1 Relay 2 	🚍 Contact Closure 6							
 Contact Closure 8 Contact Closure 9 Contact Closure 10 Contact Closure 11 Contact Closure 12 Relays Relay 1 Relay 2 	🚍 Contact Closure 7							
 Contact Closure 9 Contact Closure 10 Contact Closure 11 Contact Closure 12 Relays Relay 1 Relay 2 	Contact Closure 8							
 Contact Closure 10 Contact Closure 11 Contact Closure 12 Relays Relay 1 Relay 2 	Contact Closure 9							
 Contact Closure 11 Contact Closure 12 Relays Relay 1 Relay 2 	🚍 Contact Closure 10							
 Contact Closure 12 Relays Relay 1 Relay 2 	🚍 Contact Closure 11							
 Relays Relay 1 Relay 2 	Contact Closure 12							
Relay 1	🔻 🚍 Relays							
🚍 Relay 2	🚍 Relay 1							
	Relay 2							

Figure 21: Disabled Analog Input in Network Explorer



2. Navigate to the Properties Canvas and enable the sensor. Save your changes and scan your SiteWatch.

Property	tw.	Value	-	New Value
Alarm High Severity	Normal			• • • • • • • • • • • • • • • • • • •
Alarm High Threshold	0			
Alarm Low Severity	Normal			• • • • • • • • • • • • • • • • • • •
Alarm Low Threshold	0			
Alarm Threshold Deadband	0.1			
Alarm Threshold Units	Raw			• • • • • • • • • • • • • • • • • • •
Alarm Very High Severity	Normal			• • • • • • • • • • • • • • • • • • •
Alarm Very High Threshold	0			
Alarm Very Low Severity	Normal			• • • • • • • • • • • • • • • • • • •
Alarm Very Low Threshold	0			
Enable/Disable	Disable			
Gain	1			Disable Enable
Mode	Sixty Volts	5		
Offset	0			
Trap Enabled	NO			

Figure 22: Enable Analog Input

- 3. In this example, we can set many parameters on how this device will alarm. For instance, say we want to alarm based on the following:
 - a. Set alarm Description to "Temperature event"
 - b. 68 Degrees Raise Very Low Alarm as Critical
 - c. 72 Degrees Raise Low Alarm as Major
 - d. 80 Degrees Raise High Alarm as Major
 - e. 84 Degrees Raise Very High Alarm as Critical
 - f. Note: with the above settings, our "normal" state range will be from 72 to 80 degrees. In this range, the input will not be in alarm.
 - g. Set input name to "Temperature"
 - h. Use Fahrenheit

When finished, save your changes and scan your SiteWatch.



Property	1×		Value	-	New Value
Alarm High Severity		Normal			Major 🔹
Alarm High Threshold		0			80
Alarm Low Severity		Normal			Minor
Alarm Low Threshold		0			65
Alarm Threshold Deadband		0.1			
Alarm Threshold Units		Raw			•
Alarm Very High Severity		Normal			Critical
Alarm Very High Threshold		0			85
Alarm Very Low Severity		Normal			Critical
Alarm Very Low Threshold		0			60
Enable/Disable		Disable			Enable
Gain		1			
Mode		Sixty Volts			Thermistor F
Offset		0			
Trap Enabled		NO			

Figure 23: Analog Input Properties Canvas





Configuring Relays

Relays are set up in the same manner as Contact Closures or Analog inputs. In this example, Relay 1 is connected to a Generator Starter. Below we are setting the Alarm Description (as "Generator Starting"), the Alarm Severity (as Critical), and Relay Name (as "Generator Starter"). In this instance, when the Relay becomes Active, an alarm will raise.



		Ê	181	нĞн	ē	' A'			
E Properties ⑦ Property History									
🖉 Write									
Category 《	1	Property	1×	Va	lue	-	1	New Value	
🕶 🖿 Main	Active Alias		Ac	tive			Active		•
Device Information	Alarm Description		Re	lay Alarm					
	Alarm Note		Re	lay is in alarm state.			Relay is not in	active	
	Alarm Severity		Cr	itical			Critical		•
	Inactive Alias		Ina	active			Inactive		•
	Normal State		Ina	active			Inactive		•
	State		Ini	active			Active		•
	Trap Enable		N	D			YES		•

Figure 25: Configuring a Relay

6.2. The Status Canvas

The Status Canvas houses numerical values or True/False values for your SiteWatch's inputs based on information gathered from the last scan.



Figure 26: Status Canvas in the Navigation Bar

Analog Inputs

Analog Input Statuses shows you the "Status" or state of your sensor based on thresholds set in the Properties Canvas as well as the value of that Analog Input. In the below example, the value is a Temperature value with Fahrenheit for units.

🖉 Write 🚫 Cancel					
Category 《	Actions	Parameter	1 ▼	Current Value	•
The Main	₩	Calibrated Value		24.43	
Device Information	E .	Raw Value		24.43	

Figure 27: Analog Input Status example

Contact Closures

Contact Closure Statuses provide you with the Open/Close status of the input as well as counters for how many times a contact has closed.

Actions	Parameter	1 ▼	Current Value	-				
₩	Status		Open					
Figure 28: Contact Closure Status example								



Relays

Actions		Parameter	1⊷	Current Value	-			
2	Status			Inactive				
Figure 29: Relay Status example								

Relay Statuses tell you if the relay is Active or Inactive.

6.3. Setting Scan Intervals

The scan interval of the SiteWatch+ can be modified in the Device Info Panel while the top level of the SiteWatch+ node is selected. To do this:

- 1. Navigate to the Top-Level node of your SiteWatch+ build
- 2. Navigate to the Device Info Panel
- 3. Select the Edit Button
- 4. Set "Scan Interval" as desired. The minimum and default value is 1 minute. You can also set the Retry Interval and Fail Threshold here.
- 5. When finished, click Save to keep the changes.

My SiteWatch+ 🛛 ≪	(All Clients () C squared Systems () buty SiteWatch+ ()	~
Online	🐥 🏭 🙆 📾 💼 🏟 🧀 🧔 👎 'A' 📼	
Search Tree	Alarma Properties Satutes Device Info	
🜲 < No Filter Selected > 💌 🚥	Device Info Location Info Contact Info Custom Fields	
법말 Expand Children 법명 Collapse all	Edit Device	🔯 Save 💌 🚫 Cancel
All Clients C Squared Systems Department Monitoring ON/ Contracts Analog Sensor 1 Analog Sensor 2 Analog Sensor 2 Analog Sensor 2 Analog Sensor 3 Analog Sensor 1 Analog Sensor 1 Analog Sensor 1 Analog Sensor 2 Port 220.5Act Single Device Port 220.5Act Singl	Device info Device info	Ind Sam Count & Device @42321, 818 AM @ Noor

Figure 30: Setting Scan Intervals



7. Troubleshooting

7.1. My analog inputs are not reporting what I expect

- Check that your sensor is *enabled* from the SitePortal Properties canvas and that it is set to the correct unit. See <u>Section 6.1.4</u>
- Verify physical connection of your sensor(s) at punch-down blocks or other connection end points. Use of a multi-meter is recommended to verify impedance or voltages coming across wires of given sensors.
- Verify you are using the right wires that come out of your RJ-45 connector at the SiteWatch+. Refer to the pinouts in <u>Section 2.3</u>

WARNING - ELECTROCUTION RISK



Please exercise caution! NEVER work on a system that is powered on! Working with electrical components in an improper fashion could cause permanent injury, property damage, DEATH, or any combination of these outcomes. Interaction with electrical components, devices, sensors, wires, etc. must be left to properly trained professionals only.

7.2. My inputs aren't alarming like they should be

- Ensure that relevant sensors are *enabled* from the SitePortal Properties canvas. See Section 6.1.4
- Verify that you have set up alarm thresholds (Analogs) or normal states (Contacts or Relays) as you require.
- o If the configuration is verified as correct, check physical connections of relevant sensors.
- If you are using SNMP trap alarming, ensure a proper forwarding address has been entered for the SiteWatch+ system, and that SNMP traps are enabled for relevant sensors. See <u>Section 6.1</u>

7.3.I forgot my network information and I can't access my SiteWatch+

• SiteWatch+ has a factory reset functionality that can be utilized with the built-in, externally accessible reset button on the unit. See <u>Section 2.5</u> for further information.

7.4. The alarm LED is blinking, what does this mean?

• This LED gives you a high-level notice of the amount of alarms raised on the system. See <u>Section 2.4</u> for further information.



7.5.I want to set up SNMP Traps for certain sensors

 From SitePortal®'s Properties canvas for individual sensors, you can set a sensor to raise a trap for a given sensor when alarms raise on it. On the SiteWatch+ main node, you can set SNMP trap destinations. See <u>Section 6.1.1</u> for further information.



8. Technician Notes