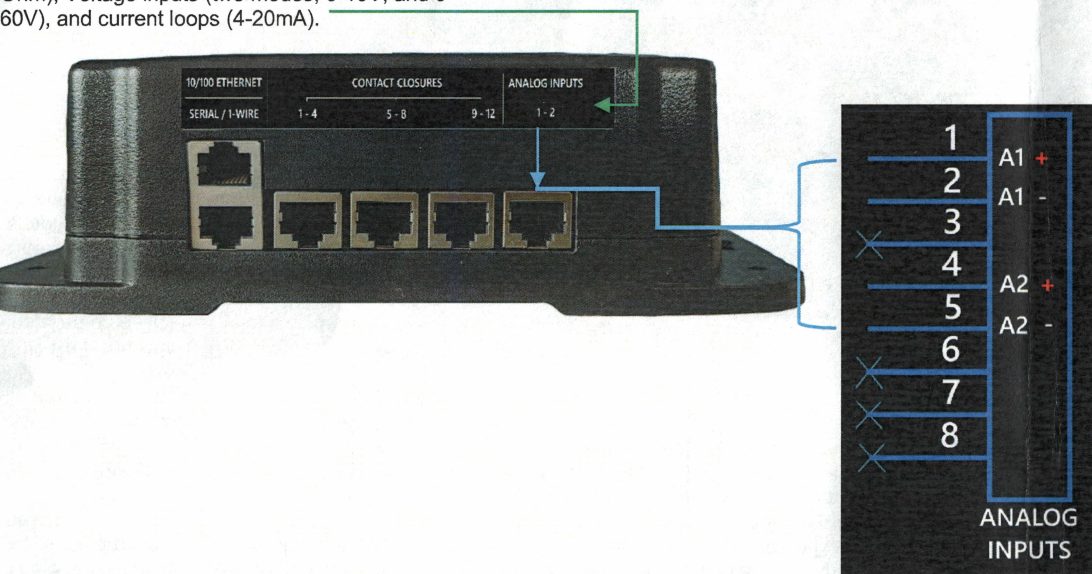


Analog Inputs

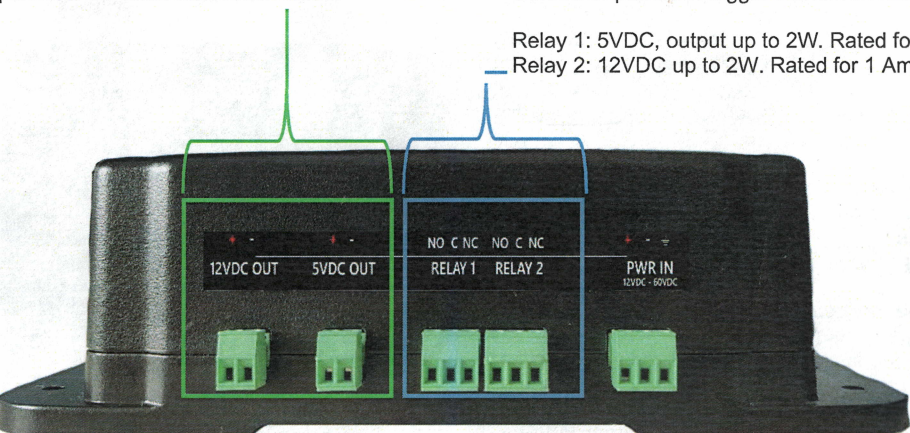
The SiteWatch+ supports up to 2 analog inputs. The Analog Inputs can be used to connect various types of analog sensors, such as Thermistors (10K Ohm), Voltage inputs (two modes, 0-10V, and 0-60V), and current loops (4-20mA).



Power Outputs

SiteWatch+ supports two discreet power outputs. These outputs can be used to power small, low power devices, or to provide voltage to sensors you may be connecting to the system.

By default, these outputs are disabled. To enable them, you will need to build the system in SitePortal® and enable them in the Properties panel for the main SiteWatch+ node.



Relays

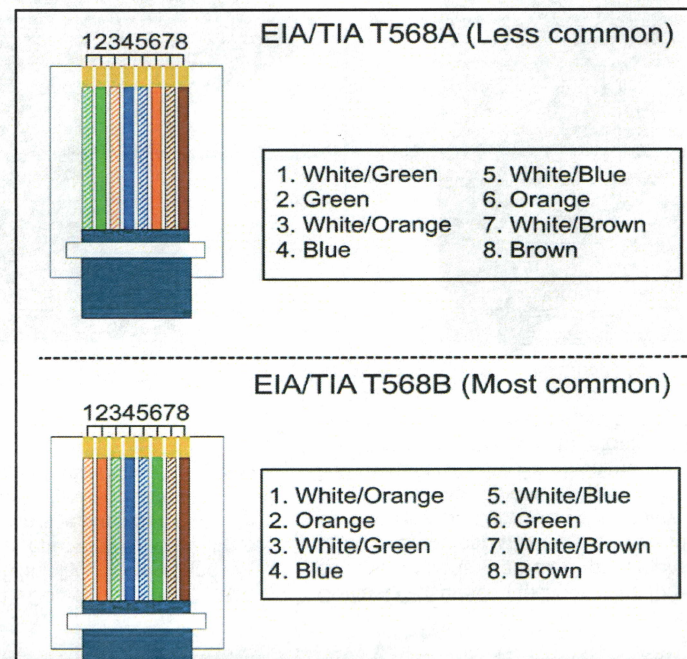
The SiteWatch+ supports up to 2 Relay Outputs, each of which can be connected as Normally Open (NO) or Normally Closed (NC). Both relays have a Common (C) connection as well. Relays on the system are intended to be used for *signaling* rather than *powering* end devices.

An example application includes connecting to Generator panels to trigger starter/run relays.

Relay 1: 5VDC, output up to 2W. Rated for 4 Amps.
Relay 2: 12VDC up to 2W. Rated for 1 Amp.

RJ-45 Connections *cont.*

To assist with Ethernet cable pinouts, refer to the below diagram.



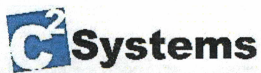
C² Systems

www.csquaredsystems.com

Support Contact

SitePortal.Support@csquaredsystems.com

(888) 677-2405



Setup Software

Before installing the unit, download the **SiteWatch+ Configuration App** from your SitePortal server's Documentation repo, under the SiteWatch+ category. This program is required to set up your SiteWatch+. Instructions for configuring network settings are listed in **section 3.2** of the SiteWatch+ User Manual, it is recommended that you refer to this document.

SiteWatch+ default settings are as follows. To connect, you will need to put your PC Ethernet interface onto the same subnet as below. Setting your PC's IP address to the Default Gateway is one IP address you could use:

SiteWatch+ Default Connection Parameters:

IP Address: 192.168.1.253

Subnet Mask: 255.255.255.0

Gateway: 192.168.1.254

Initial Connections

Power

The SiteWatch+ supports DC Input voltages between +12V and +60V with 600mW of power consumption. Connect the supplied power cable to the Positive and Negative terminals on the SiteWatch+, and connect the other ends to your PDU or Power Plant. An optional DC power adapter is available for AC installations.

For current limiting, it is recommended to limit current as the following:

Input Voltage: 12V = Current: 2 Amps

Input Voltage: 24V = Current: 1 Amp *

Input Voltage: 48V = Current: 0.5 Amps

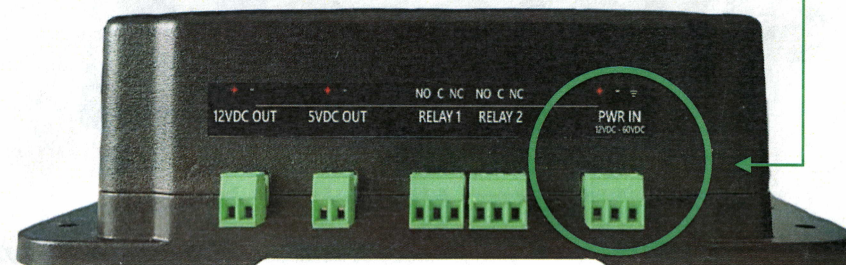
Input Voltage: 60V = Current: 0.25 Amps

* This is the combination on the optional AC wall adapter.

Network

Connect the supplied Ethernet cable to the Ethernet port on the SiteWatch+. Connect the other end to a laptop PC in order to set the IP Address.

~ Your included C Squared Systems mini screwdriver is reversible! ~



Quick Start Guide

Mounting Instructions

The SiteWatch+ can be mounted in several ways, determine the method that best suits your needs:

Wall Mounting: The SiteWatch+ can be installed on a wall with the four (4) supplied screws and optional hollow wall anchors. The ears of the SiteWatch+ have holes for mounting on a wall.

DIN-Rail mounting: The SiteWatch+ can be installed on a DIN-Rail (Not Included). If requested, a DIN rail mount kit was included in your order. Install the mounting kit onto the SiteWatch+. After the kit is installed, the mounts simply clip onto a DIN rail. To remove the device, you will need to depress latches built into the mount, a screwdriver or other object with a flat end is recommended for this. It's unlikely there will be space to do this with your fingers. Please see the SiteWatch+ User Manual for further information.

RJ-45 Connections

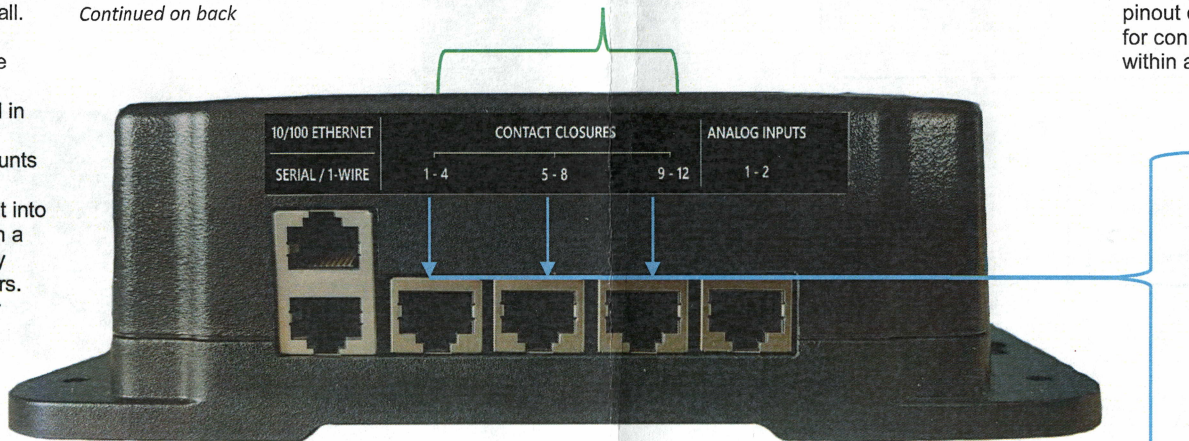
A unique feature of SiteWatch+ is that it supports input connection via the common RJ-45 standard for all Contact Closures and Analog Inputs on the system. RJ-45 allows easier ability to terminate connections at punch down blocks as well as ease of termination at the SiteWatch+ itself.

Continued on back

Contact Closures

SiteWatch+ supports 12 Contact Closures. Each Contact Closure is individually grounded and electrically isolated from one another, assuring no cross-talk between sensors leading to higher sensor fidelity. Individually grounded circuits eliminates the possibility of ground loops across multiple sensors.

Contact Closure connections span three RJ-45 connection ports. Per RJ-45 port, there are four Contact Closures, with the positive and negative connections for a given sensor on any two pins. For example, Contact Closure 1 can be found on the first Contact Closure RJ-45 connector utilizing pins 1 and 2. It may be useful to refer to an Ethernet pinout diagram, or observe the cable you are using for connecting to sensors to determine which wires within an RJ-45 cable will match up.



	10/100 ETHERNET	SERIAL / 1-WIRE	CONTACT CLOSURES	ANALOG INPUTS
			1 - 4	5 - 8
			9 - 12	1 - 2
1			C1,5,9	
2			C1,5,9	
3			C2,6,10	
4			C3,7,11	
5			C3,7,11	
6			C2,6,10	
7			C4,8,12	
8			C4,8,12	
			CONTACT CLOSURES	