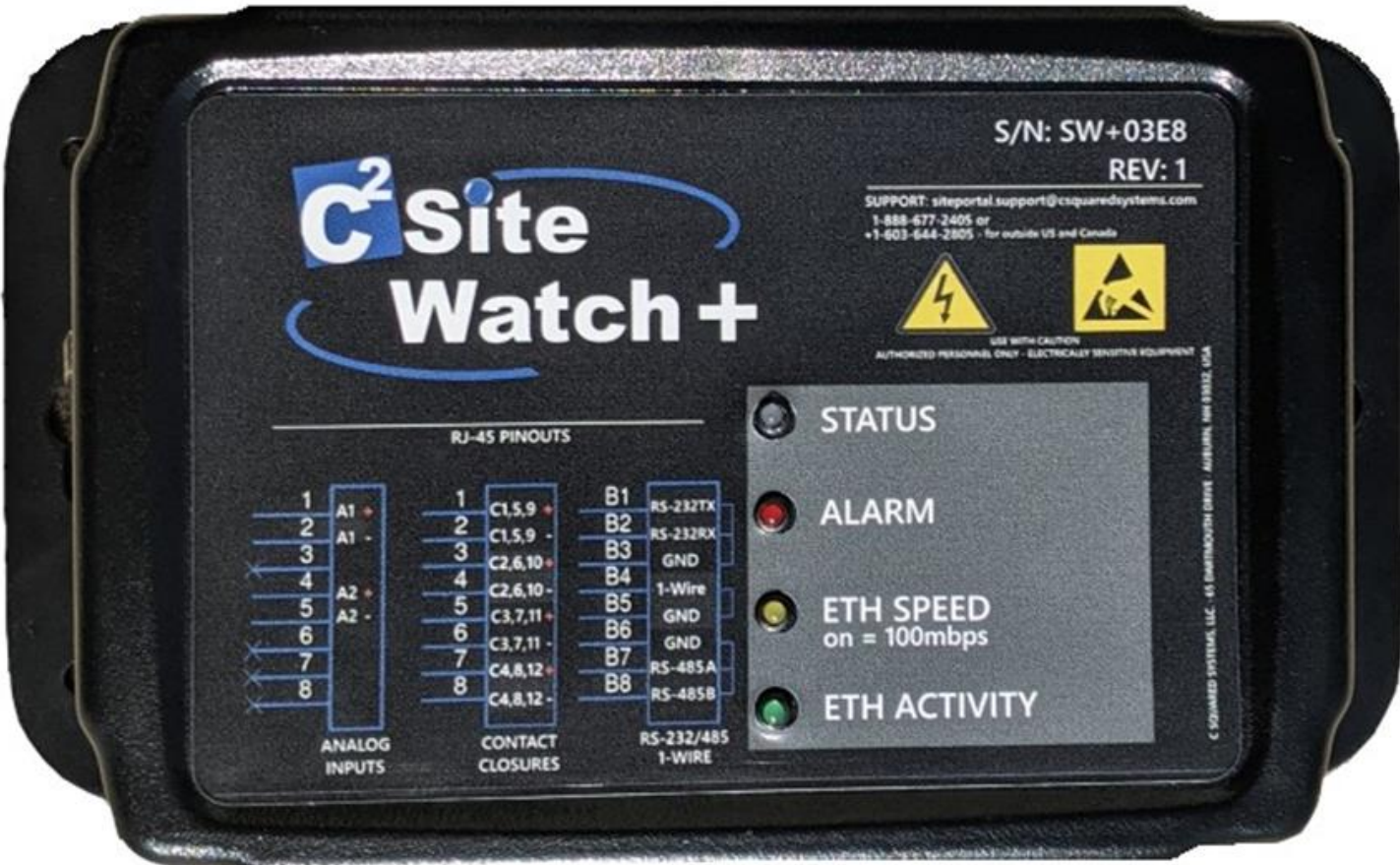# Small RTU, Big Features

SiteWatch+™ is a high quality, high performance, cost-effective RTU. It offers remote monitoring, alarming and connectivity for contact closure alarms devices, environmental sensors, and other site devices.

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.

The dual, high precision analog inputs with multiple programmable modes can handle up to 60 VDC and are fully isolated to cover both negative and positive voltage measurements. The same inputs offer 4 – 20 mA current mode and accurate temperature measurements of both environments and equipment using NTC thermistors. These analog modes are selectable for each analog input for maximum flexibility.
Additional communications capabilities include onboard RS-232, RS-485 and 1-wire support.

The SiteWatch+™ supports multiple ways to provide its data to monitoring systems including SNMP polling and low-latency trap support to make sure you have the latest information on the status of your monitored sites, systems, and devices. SiteWatch+™ features onboard alarm detection and processing capabilities to instantly detect alarm conditions and send trap information to the monitoring system. Its DC isolated power supply works equally well with either negative or positive ground power, providing the flexibility to monitor devices powered by either grounding standards.

Designed to provide high performance in real-world conditions, the SiteWatch+™ keeps working over a wide temperature range and through varying power supply conditions.

C² Site Watch +

Specifications

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 Storage 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 Modes	0-10 VDC, 0-60 VDC, 4-20 mA Current Loop, 10 kΩ NTC Thermistor
Input Selection	Modes Programmable per Input
Input Protection	Lightning & Static
Offset	Programmable Gain & Offset Settings per Input
Accuracy	±0.1%
Zero Drift	0.02 LSB/°C
Connector	RJ-45, Two Pins per Input

DIGITAL (CONTACT CLOSURE DETECTION) INPUTS	
Quantity	12
Isolation	Opto-isolated with Individual Fully Isolated Supply Contact Wetting Voltage Option.
Range	3 VDC to 60 VDC (wet mode)
Input Mode	Dry (open-collector) or Wet Contact
Mode Selection	Individually Programmable per Input
Connectors	RJ-45, Two Pins per Input

RELAY OUTPUTS	
Relay 1 Rating	250 VAC, 30 VDC, 4 A
Relay 2 Rating	120 VAC, 60 VDC, 1 A
Type	Form-C
Connector Type	Removeable Screw Terminal Block

OUTPUT POWER	
5 VDC Rating	2 W
12 VDC Rating	2 W

INPUT POWER	
Input Range	12 to 60 VDC
Reverse Polarity Protection	Yes
Power Supply	DC Isolated
Ground Connection	Separate Ground Connection
Power Consumption	Less Than 600 mW

ETHERNET	
Speed	10/100 Mbps
Port	RJ-45
Device Communications	Modbus TCP Via Ethernet or RS-232

SERIAL INTERFACES	
Types	RS-485, RS-232, 1-Wire
Protocol	Modbus RTU

SNMP	
Versions	v1, v2c, v3
Features	Sensors (config, control), alarm config, northbound traps