

**BROADCAST**  
**t o o l s** INC  
**PROBLEM SOLVED**

*Installation and Operation Manual*



**Site Sentinel® 4 G2**  
**Web based Four Channel Site Remote Control System.**

Manual updated: 5/11/2026

For firmware versions equal to or greater than SSP\_V1.06 / SSX\_V2.27 / SSW\_V1.46.lxi  
If you need a firmware upgrade, contact Broadcast Tools®

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NOTE: We recommend the use of Chrome, Firefox or Safari as your browser.

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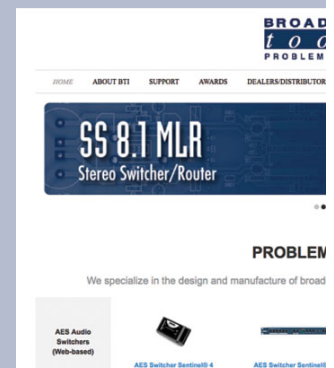
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## INTRODUCTION

Thank you for your purchase of Broadcast Tools® Site Sentinel® 4 G2 Web based Four Channel Site Remote Control System (referred to as the Site Sentinel® 4 G2 throughout this manual). We're confident that this product will give you many years of dependable service. This manual is intended to give you all the information needed to install and operate the Broadcast Tools® Site Sentinel® 4 G2.

## SAFETY INFORMATION

**CAUTION!** Only qualified technical personnel should install the Site Sentinel® 4 G2. Any attempt to install this device by a person who is not technically qualified could result in hazardous conditions to the installer or other personnel, and/or damage to the Site Sentinel® 4 G2 or other equipment. Broadcast transmitters can operate at voltages that are potentially lethal. Please ensure that proper safety precautions have been made before installing this device. If you are unfamiliar with this type of equipment, please contact a properly qualified engineer to handle the installation and setup of the Site Sentinel® 4 G2.

Broadcast Tools® Products, as with any electronic device, can fail without warning. Do not use this product in applications where a life-threatening condition could result due to failure. Serious injury or death can occur if a command channel is activated while you are performing maintenance on your equipment. If you are performing maintenance on your equipment, you should press the "LOCAL" button on the front panel of your Site Sentinel® 4 G2 forcing the unit into local mode. The "LOCAL" LED will illuminate. Local mode prevents the unit from performing relay commands.

For additional safety, it is strongly recommended that, in addition to setting the Site Sentinel® 4 G2 in to "LOCAL" mode, the remote/local switch on any transmitter or high voltage equipment should also be set to local mode.

While the Site Sentinel® 4 G2 relays are physically capable of handling 250 VAC, this practice is extremely dangerous and should never be attempted. The removable euroblock screw terminals are not designed to shield humans from potentially dangerous voltages. Contact with high voltages can cause serious injury or death. The maximum recommended voltage for the Site Sentinel® 4 G2 is 30V. Switching of high voltages should only be done externally from the Site Sentinel® 4 G2 and in a manner that isolates the voltages from accidental contact with humans.

## WHO TO CONTACT FOR HELP

If you have any questions regarding your product or you need assistance, please contact your distributor from whom you purchased this equipment. If you would like more information about BROADCAST TOOLS® products, you may reach us at:

### Broadcast Tools, Inc.

131 State Street  
Sedro-Woolley, WA 98284-1503 USA  
Voice: 360.854.9559  
Fax: 866.783.1742  
Internet Home Page: [www.broadcasttools.com](http://www.broadcasttools.com)  
E-mail: [support@broadcasttools.com](mailto:support@broadcasttools.com)

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BROADCAST TOOLS® BRAND PRODUCTS!  
Broadcast Tools is a Veteran Owned Business



Designed , Manufactured, and Supported in Washington State, USA.



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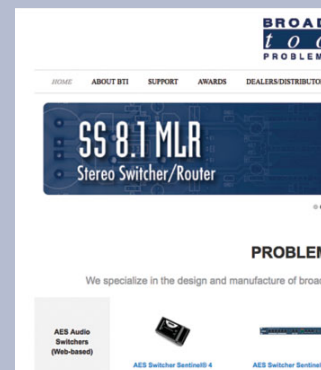
**NOTE:**

This manual should be read thoroughly before installation and operation.

Find a contract Broadcast Engineer in your area? Check out this link: <https://sbe.org/cce/>

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## Product Overview

The Broadcast Tools Site Sentinel® 4 G2 is a robust, full-featured; web-enabled four channel remote control featuring a desktop/mobile browser compatible web interface (HTML5.) The system is equipped with four metering inputs (0 to 10 VDC), four optically isolated status (logic) inputs, four programmable SPDT relay outputs (ON, OFF and pulsed operation), one external temperature probe input, stereo silence sensor, and power failure input. Includes built-in support for email, and SNMP.

The Site Sentinel® 4 G2 was designed from a user's point of view, so all the basic functionality you need to control your site equipment is included, while including the accessories other manufacturers consider optional. Each analog (metering), status/logic, stereo silence sensor, external temperature sensor (probe optional), power input (power fail), along with all relays can be controlled and/or monitored over any IP network including private networks, IP-based industrial control networks, and the Internet. Users can operate the product using a web browser or web-enabled mobile device, while email notification may be configured to alert up to EIGHT recipients when alarms are detected. The user may also enable a sound effect to play on the monitoring PC when an alarm is generated. Logging of system status, along with the site ID may be emailed in time spans from once an hour to once a day. SNMP and SMTP username and passwords are also supported.

The Site Sentinel® 4 G2 is also equipped with a power controller relay port. By pairing this feature with an optional external AC power control unit (such as the Mid-Atlantic RLM-15-1CA, RLM-20-1C or RLM30-L530-1) remote rebooting of equipment is possible.

## Product Features

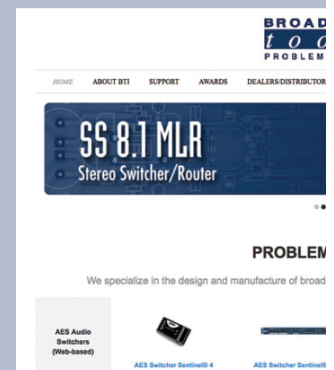
- HTML5 web interface.
- Email (SMTP) and email-to-SMS.
- SNMP GET/SET and traps.
- Four SPDT relay outputs (pulse, on, or off.)
- Four metering inputs (0 to +10 VDC.)
- Four opto-isolated inputs, dry or wet signals (3.3-24 VDC, or 25-48 VDC\*)
- Stereo Silence Sensor
- Plug-in euro block screw terminals for metering, status, control relays, and stereo silence sensor.
- 1/8" T/R/S mini jack for the optional external temperature sensor.
- Relay event action sequencer for user configurable alarm/rules-based relay actions.
- 100-event program scheduler for relay control, DST correction, and alarm muting.
- NTP date/time sync.
- Fully RFI-proofed.
- Surge protected internal power supply, a 9 VDC desktop universal switching power supply with domestic connector is supplied.
- Dual power input jacks with power failure monitoring.\*\*
- Up to three units may be mounted on the optional RA-1 rack shelf. Desktops and wall mounting are also possible.

\* Using an external resistor.

\*\* Optional second power supply.

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## OVERVIEW

## Inspection

Please examine your Site Sentinel® 4 G2 carefully for any damage that may have been sustained during shipping. If any is noted, please notify the shipper immediately and retain the packaging for inspection by the shipper. The package should contain the Site Sentinel® 4 G2, a 7 foot BLUE straight-through CAT 5 cable, 7-foot GRAY crossover CAT 5 cable and the 9 VDC @ 1 amp universal desk-top power supply.

## Installation

### Chassis Ground (Chs GND)

**CAUTION!** Installation of the Site Sentinel® 4 G2 in high RF environments should be performed with care. Shielded cable is suggested for all monitoring and control connections with all shields tied to the station/site ground terminal. The station/site ground should be connected to the rear panel (Chs Gnd) chassis ground screw terminal using an 18 or 20-gauge wire.

### Surge Protection

The Site Sentinel® 4 G2 has built-in resistance to voltage changes, we recommend that you use a power surge protector or line conditioner on the incoming AC line. Lightning strikes and other high surges in voltage levels will damage your Site Sentinel® 4 G2 and connected equipment if it is not properly protected. For lightning protection devices, check out [www.polyphaser.com](http://www.polyphaser.com) and [www.itwlinx.com](http://www.itwlinx.com).

### UPS Standby Power System

We recommend that you connect your Site Sentinel® 4 G2 to an UPS system. A UPS, like the BE600M1 from APC helps to minimize the risk to the Site Sentinel® 4 G2 and provides power during a power outage. All operating and user parameters are stored in non-volatile EEPROM, brownout conditions and lightning induced spikes can disable or damage equipment. A UPS helps minimize the risk to the Site Sentinel® 4 G2 and has the added benefit that it will then be able to notify you of the power outage by email.

### Power 1 (PWR 1) 9 VDC Primary Power Input

Connect the supplied 9.0-volt DC @ 1 amp universal power supply into the Site Sentinel® 4 G2's power jack (center positive) labeled "PWR 1", plug the power supply into a source of 100 to 250 vac 50/60Hz. Verify that the front panel green (PWR/HB) power LED is illuminated.

### Power Failure /Power 2 (PWR 2) Backup Power Input

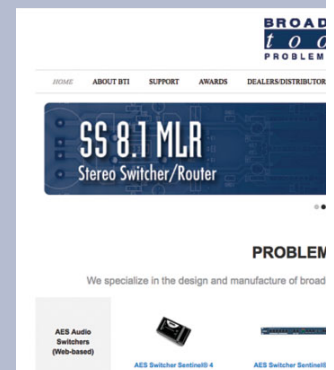
Connect the optional backup/power fail Broadcast Tools 9 DC @ 1 amp only power supply (center positive) to the power failure input labeled PWR 2/PF. The barrel connector size is 2.1mm ID x 5.5mm OD.

### NOTE:

*For power failure notification the power supply should be connected to the utility company side of your service. An UPS is suggested to power the Site Sentinel® 4 G2 primary "Power 1" input during power outages.*

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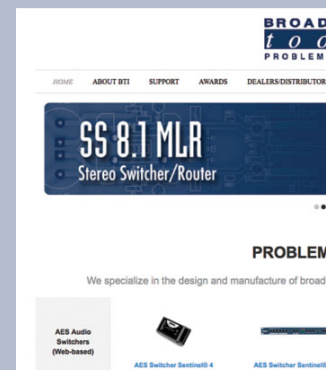
## Front panel indicators and controls



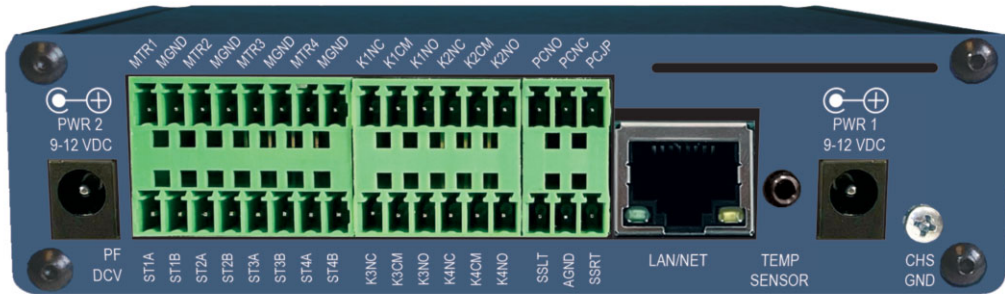
Name	Type	Description
Default	Push Button	Recessed push button used to reload factory defaults.
Status 1 - 4	LED	Lit when the corresponding status input is activated.
Relays 1 - 4	LED	Lit when the corresponding relay is activated.
LOCAL	Push Button	Toggles between operate and local mode.
LOCAL	LED	Lit when the unit is in local mode.
PWR/HB	LED	Lit when valid power is applied to the power jack.
PWR CNTR	LED	Lit when the power controller relay is activated.
SS	LED	Lit when adequate audio is applied to the SS Input(s), OFF when the level is too low and flashing if in an SS alarm condition, if enabled.
PF	LED	Lit when PF/PWR2 is powered, OFF when inadequate DC voltage is applied to the PF jack and flashing if a Power Failure has been detected, if enabled.

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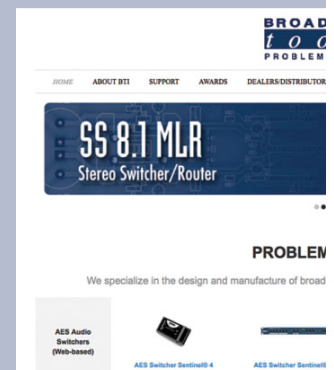
## Rear panel connections



Name	Type	Description
PWR 2/PF	2.1mm Jack	PWR2 redundant power input/Power Failure power jack. 9-12 VDC power supply optional. 2.1mm x 5.5mm.
MTR 1 - 4	Connector	Metering (analog) inputs one through four (Top).
MGND	Connector	Metering (analog) ground reference terminal (Top).
ST1A - 4A	Connector	Status input opto-isolator input. When configured for DRY, (factory default) this terminal is ground. When configured for WET (floating), this terminal is the anode via a 2.2Kohm current limiting resistor (Bottom).
ST1B - 4B	Connector	Status input opto-isolator cathode. (Bottom).
K1 – K4NC	Connector	Normally Closed, dry relay contacts.
K1 – K4CM	Connector	Common, dry relay contacts.
K1 – K4NO	Connector	Normally Open, dry relay contacts.
SSLT	Connector	Unbalanced Silence Sensor left audio input (Bottom).
GND	Connector	Silence Sensor audio ground (Bottom).
SSRT	Connector	Unbalanced Silence Sensor right audio input (Bottom). <b>NOTE: Left and right summed to monaural internally.</b>
TEMP	3.5mm Jack	Temperature probe input jack. (Temp probe optional) 1/8" (3.5mm) T/R/S mini jack.
PCNO	Connector	Power controller, normally open relay contact.
PCNC	Connector	Power controller, normally closed relay contact.
PCJP	Connector	Power controller internal function jumper.
LAN/NET	Connector	RJ45 ethernet/LAN network connector.
PWR 1	2.1mm Jack	System power supply input. 9 volts DC @ 1 amp. <b>NOTE: Center positive. 2.1mm x 5.5mm.</b>
Chs Gnd	Chassis ground.	Tie to site/station Ground.

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## INSTALLATION

## Connecting your Site Sentinel® 4 G2 to external equipment

### Metering (analog) inputs

**CAUTION!** Metering (analog) input samples may be elevated several hundred volts above ground on some external equipment. Permanent damage may occur to the Site Sentinel® 4 G2 and/or external equipment if a high voltage metering source is connected to the Site Sentinel® 4 G2! Failure to observe this warning may also cause injury to the installer or other personnel.

**CAUTION!** DO NOT CONNECT SAMPLE VOLTAGES IN EXCESS OF POSITIVE 10 Volts DC OR DAMAGE MAY OCCUR TO YOUR Site Sentinel® 4 G2.

### CAUTION! Floating Grounds

Except for status/logic (wet) inputs, none of the Site Sentinel® 4 G2's metering inputs will accept a floating ground. Damage to the Site Sentinel® 4 G2 or your equipment may result from connecting a floating ground output to the Site Sentinel® 4 G2. If you require metering equipment with negative inputs or inputs that have a floating ground, a DC isolation amplifier should be used.

Four buffered metering (analog) input channels are available with the Site Sentinel® 4 G2 via removable euro block screw terminals. Connect the positive side of the source to the desired channel terminal labeled MTRx (where x is the channel number 1 through 4) and associated MGND (metering ground) terminals.

Each buffered metering (analog) input can handle up to (positive only) 10 volts DC and must be ground referenced and connected to the associated MGND ground terminal. Inputs are self-calibrating and are based on an internal A/D converter so the reading should not drift over time or with temperature. Metering setup is performed by connecting the sample voltage to the MTRx and MGND metering (analog) input, then calibrate for the desired value (reading).

**NOTE:** Valid sample voltage **MUST** be applied to the selected metering input to perform calibration using the “Save Cal” feature on the I/O Setup page.

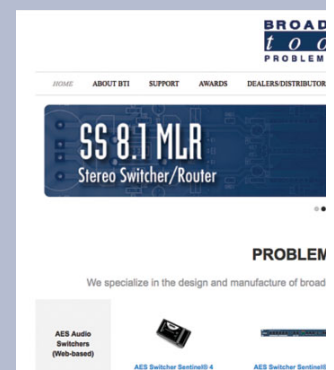
### Status/Logic Inputs

Each optically isolated status/logic input has a terminal labelled “STAxA” and a terminal labelled “STAxB”. Inputs can be configured for either wet or dry operation via internal jumpers. The factory default configuration is dry, where the “A” side of the input is ground (GND) and the “B” side of the input is the cathode (-) of the opto-isolator. In this configuration 5V is applied internally to the anode (+) of the opto-isolator. This configuration is best for interfacing external dry contact relay outputs, switches, and open collector outputs.

In the “wet” configuration an external voltage must be applied to the input to activate the opto-isolator. When configured for wet operation the “A” side of the input is the anode (+) and the “B” side of the input is the cathode (-). This configuration is best where full isolation is preferred or when interfacing with external voltage/logic level outputs.

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## INSTALLATION

Each optically isolated input is connected through an internal 2.2k ohm series current-limiting resistor directly to an opto-coupler circuit so no external resistor is necessary if the input voltage is between 3.3 and 24 VDC. Higher DC voltages, from 25 to 48 VDC, can be used but must be reduced with an additional external resistor of the appropriate value and power rating to limit the current input.

Here is how to calculate the value and power rating of an external current limiting resistor for DC voltages up to 48 VDC: Each opto-isolated input has an internal 2.2K ohm series resistor. The opto-isolator works well with an input current of 9 mA and has a voltage drop of around 1.2V. With this information we can determine the correct external series current limiting resistor value needed for other voltages using the equation:

$$R = (V_{in}-1.2)/0.009-2200$$

Where:

R = External resistor value required

$V_{in}$  = Desired input voltage

1.2 V = Forward voltage drop of the LED in the opto-isolator

0.009 A = Nominal LED current

2200 ohms = Internal resistor

For example:

To connect a 48 VDC signal voltage to an input on Site Sentinel 4 G2 in “wet” configuration the completed equation for the external resistor value would be:

$$R = (48-1.2)/0.009-2200 = 3000 \text{ ohms}$$

To calculate the power dissipated by the external resistor, the equation would be:

$P = I \times I \times R$ , so the resistor must be at least  $.009 \times .009 \times 2200 = 0.243$  Watts, use a 1/2 Watt rated resistor.

**NOTE: Please refer to the appendix for configuration examples and observe proper polarity.**

Please refer to the appendix for configuration examples.

**NOTE: Please observe proper polarity.**

### Control Relays

Each of the four control relays are supplied with a common and normally open (NO) and normally closed (NC) dry contacts (SPDT). External equipment to be controlled should be connected to the terminals labeled KxCM and KxNO or KxNC (where x is the control relay number) for relays one through four.

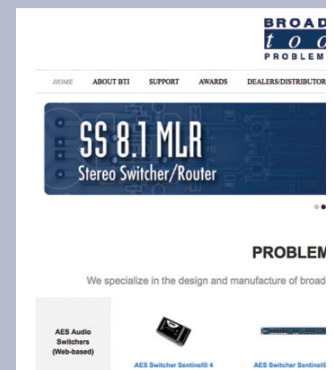
<sup>1</sup>**NOTE: If latching relays are required, we suggest the Broadcast Tools Smart Relay 4 G2 or Box O' Relays 6.**

### Silence Sensor Inputs

Connect your unbalanced monaural or stereo audio source to the terminals labeled SSLT, SSRT and AGND. The level should be between -10 and +24 dbu. The input impedance is approximately 22K ohms. When the SSLT/RT input has audio applied and the silence sensor is activated, the front panel SS led is illuminated. If the SS led is out, the signal is too low and if it's flashing, it is in an alarm condition (if enabled).

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## INSTALLATION

## TEMPERature Probe Input

Insert the OPTIONAL temperature probe (25 foot cable) mini (3.5mm) plug in to the rear panel jack labeled “TEMP” -67°F to +257°F (-55°C TO +125°C).

**NOTE: Please limit the total length of cable to 50 feet. Please contact the factory for the proper cable extension. The temperature probe should only be installed or removed with the power supply disconnected from the Site Sentinel® 4 G2.**

## Power Controller Relay Output

This relay output is designed to control an optional external AC power control unit (such as the Middle Atlantic RLM-15-1CA, RLM-20-1CA or RLM30-L530-1), for remote rebooting of AC powered equipment.

## Default Power Controller Relay Output Configuration

J10 Jumper setting: jumper across pins 2 and 3 of J10 (factory default.)  
PCNO = Relay Normally Open (dry)  
PCNC = Relay Normally Closed (dry)  
PCJP = Relay Common (dry)

## +5 VDC Power Controller Relay Output Configuration

If the external relay needs a positive control voltage, then the relay can be configured to provide +5 VDC and ground:

J10 Jumper setting: jumpers across pins 1 & 2 and 3 & 4 of J10.  
PCNO = Normally Open (+5 VDC/wet when closed)  
PCNC = Normally Closed (+5 VDC/wet when open)  
PCJP = Ground

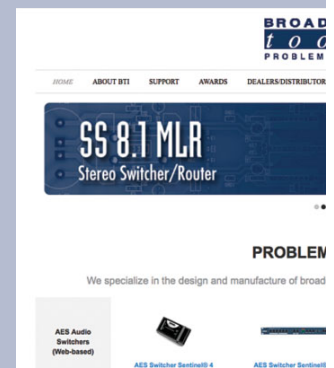
The jumpers are set to provide the relay common (wiper) on the terminal labeled (PCJP). Please refer to the “Fractional Schematic” in the appendix for more jumper options.

## NET/LAN RJ45 Ethernet connector

RJ45 Ethernet jack for 10/100baseT LAN/WAN connection. Connect one end of the supplied CAT5/6 (straight or x-over) cable to the desired ETHERNET (WAN/LAN) port.

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## INSTALLATION

## Web Setup and Operation

### Ethernet “Quick Start” Guide

**NOTE: We recommend using Chrome, Firefox, or Safari as your browser. Microsoft Edge and Internet Explorer are NOT supported.**

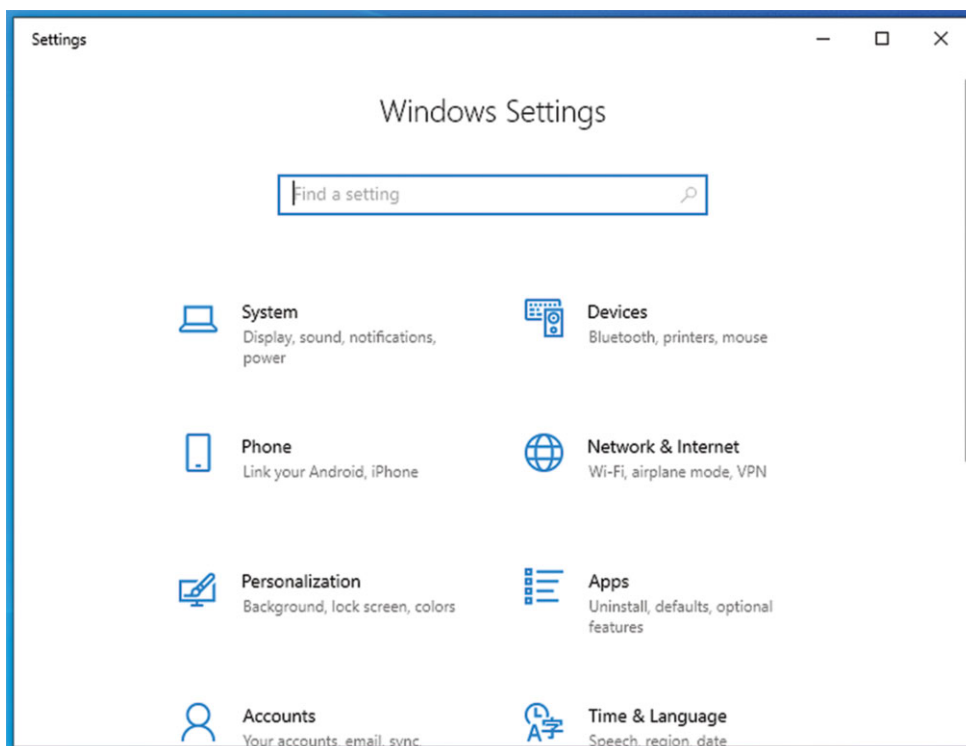
**CAUTION! NEVER DOWNLOAD FIRMWARE UPDATES OR CHANGES TO THE XPORT WEBSERVER UNLESS INSTRUCTED TO DO SO BY BROADCAST TOOLS®. DOING SO DELETES ALL SOFTWARE AND VOIDS ALL WARRANTIES FROM BROADCAST TOOLS, INC.**

**CAUTION!** If you are not familiar with Ethernet-enabled equipment, it may be useful to contact your IT department, network administrator or network consultant for assistance. Assigning an IP address already in use by another device may cause problems with your network!

**CAUTION!** Network scanning utilities such as Nmap, Tenable Nessus®, and Rapid Fire Tools can disrupt the operation of your Ethernet enabled device. Please remove the device’s IP address from the scanner or whitelist it.

Instructions for changing the IP address of the computer that will be used for the configuration of this product are given here. Note that these instructions are specifically for computers with the Windows 11 operating system but will also work with Windows 10. For setup using other operating systems, refer to the appropriate OS user’s manual.

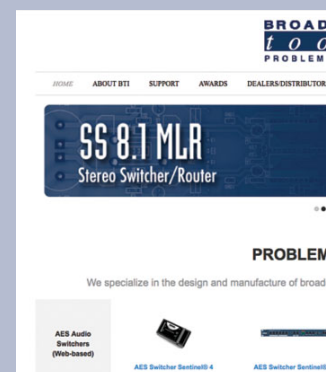
Step 1: Open the control panel by clicking on the Start Menu, click on Settings, then click on Network & Internet. Click on View network status and tasks under Network and Internet.



e-mail: [support@broadcasttools.com](mailto:support@broadcasttools.com) voice: 360.854.9559 fax: 866.783.1742

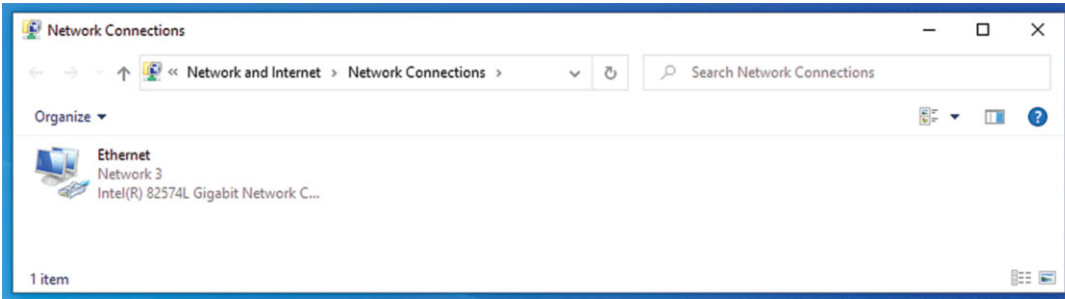
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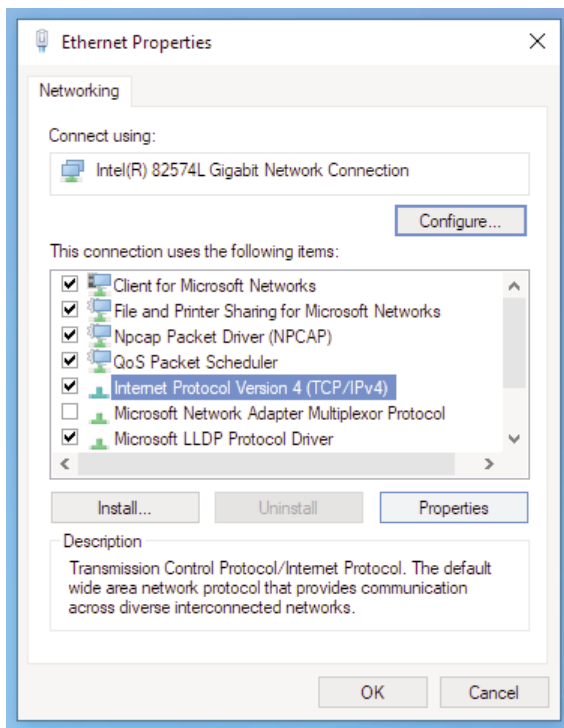


### WEB SETUP

Step 2: Click on the sidebar labelled Change adapter settings. The Network Connections windows will pop up, as shown below.

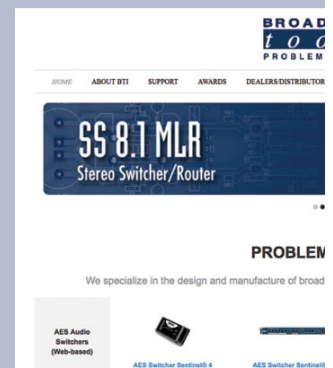


Step 3: Right click on the icon labeled Local Area Connection or Ethernet. A menu will appear. Select the option at the bottom of the menu labeled Properties. The Ethernet Properties window will appear.

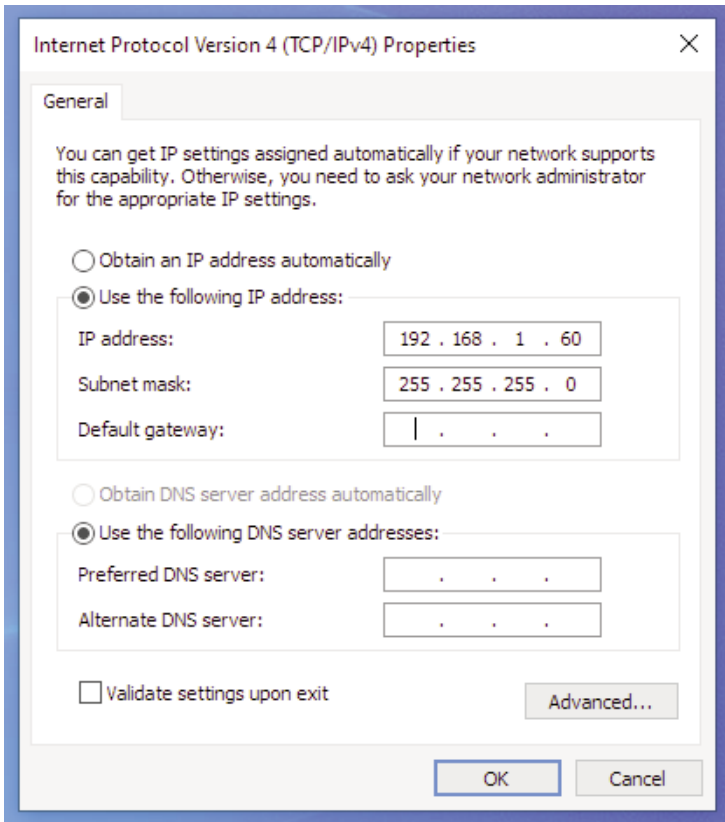


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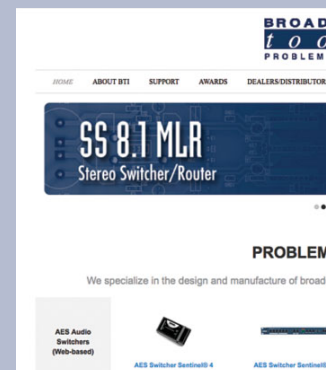
Step 4: On the Local Area Connection Properties page, double click on Internet Protocol (TCP/IPv4) to display properties.



Step 5: Before making any changes to the network settings, write down the current settings (or screen capture the page and print) so that they can be restored once the unit is configured. Next, select the radio button labeled “Use the following IP address” and type in the IP address 192.168.1.60. Type in the subnet mask of 255.255.255.0. Leave the default gateway field blank. Click OK to apply the new settings.

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## Ethernet (NETWORK) port LED indicator functions

Link LED Left Side	
Color	Meaning
Off	No Link
Amber	10 Mbps
Green	100 Mbps

Activity LED Right Side	
Color	Meaning
Off	No Activity
Amber	Half Duplex
Green	Full Duplex

## Opening the LOGIN Web Page

1. Connect the supplied GRAY colored XOVER cable between the PC's Ethernet port and the products "NET" network RJ45's jack.
2. Connect the supplied power supply. Verify that the green PWR/Heartbeat LED is blinking and the left "LINK" LED above the "NET" Network RJ45 is illuminated.
3. Open the product's login page by typing the following URL into the browser: <http://192.168.1.55> The username and password is required to change any parameter and the fields are case sensitive.

Factory "login" defaults: username: admin (lower case)    password: 1234

**NOTE:** You may view the password by checking the "Show Password" box.

4. Press the "Submit" button to login in. Once you are logged in, follow this manual for setup and/or operational information.

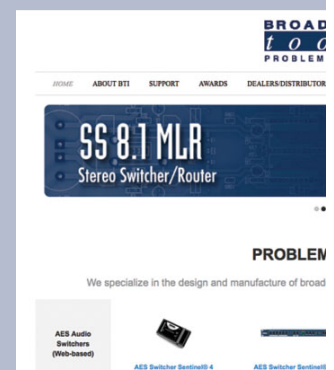


### NOTE:

*We recommend using Chrome, Firefox, or Safari as your browser. Microsoft Edge and Internet Explorer are NOT supported.*

### WEBSITE:

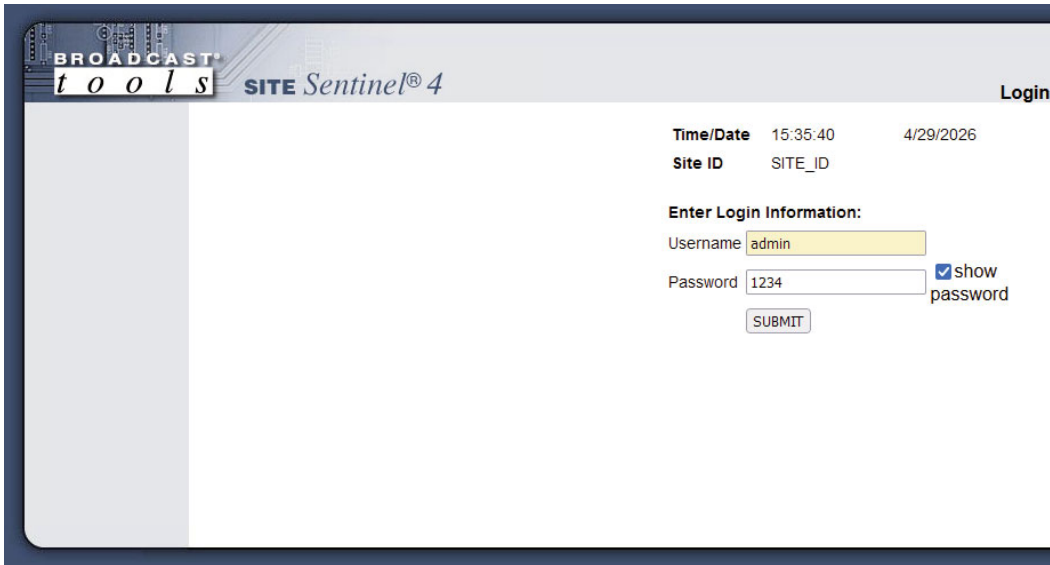
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## “Login” Web Page

The Login screen displays the Username and Password entry points.

You may view the password by checking the “Show Password” box.

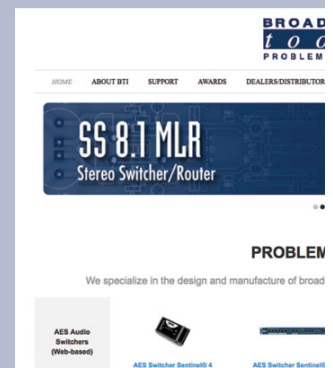


The screenshot shows the login interface for Broadcast Tools Site Sentinel 4. The header includes the logo and the text "SITE Sentinel® 4". The page displays the current time and date (15:35:40 on 4/29/2026) and the site ID (SITE\_ID). Below this, there is a section titled "Enter Login Information:" with a Username field containing "admin" and a Password field containing "1234". A checkbox labeled "show password" is checked. A "SUBMIT" button is located below the password field.

After you have successfully logged in, the Monitor/Control page will be displayed. Depending on your access level, you may or may not be able to control or modify the product’s configuration.

## WEBSITE:

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## “Monitor/Control” Web Page

**BROADCAST TOOLS SITE Sentinel® 4 Monitor/Control**

**NAVIGATION**  
 About  
 Monitor/Control  
 User Setup  
 I/O Setup  
 Email/Network Setup  
 Scheduler  
 Show Alarms  
 Help  
 Logout

**Date:** 4/29/2026    **Site ID:** SITE\_ID  
**Time:** 15:36:57    **Temperature:** Temp Label:69 °F  
**Queued Logs:** Disabled

Meters			Status	
Label	Value	Label Unit	Label	State
Meter 1	0.00	V	Status 1 OFF	
Meter 2	0.00	V	Status 2 OFF	
Meter 3	0.00	V	Status 3 OFF	
Meter 4	0.00	V	Status 4 OFF	

Relays		Silence Sensor	
Label	State		
Relay 1	<input type="button" value="Pulse"/>		
Relay 2	<input type="button" value="Pulse"/>		
Relay 3	<input type="button" value="Pulse"/>		
Relay 4	<input type="button" value="Pulse"/>		

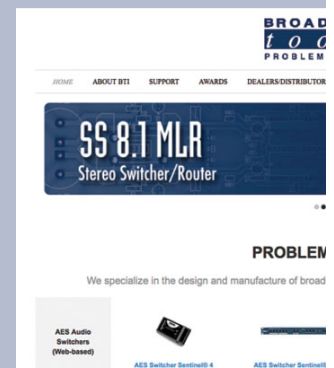
Power Ctrl.	Power Failure
<input type="button" value="Pulse"/>	

The Monitor/Control page allows the monitoring and/or control of the Site Sentinel® 4 G2. The following is an explanation of each item on this page:

**NOTE: The user defined Site ID, Time, Date and Queued Logs are always displayed. Only “admin” level access can edit some of these items.**

- Queued Logs:** Displays the available number of queued logs.
- Meters:** Four metering (analog) channels. The labels, values and units are entered in the I/O setup page.
- Status:** Displays the condition of the four status/logic inputs.
- Relays:** Allows the user with admin or monitor/control access to control each relay for its displayed function.
- Silence Sensor Level:** Displays the silence sensor input level. The green LED operates from -15 and above. The yellow and red led activations are determined by the user programmed trip level.
- Power Failure** Illuminated when power is applied, OFF when inadequate DC voltage is applied to the PF jack.
- Power Ctrl** Illuminated when the relay is activated.

**WEBSITE:**  
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## “User Setup” Web Page

**BROADCAST tools SITE Sentinel® 4** User Setup

Site ID:

--- Access Level ---

Username	Password	Show Password	Admin	Monitor/Control	Monitor Only
admin	****	<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

This page can only be configured with (factory default) the “admin” access level.

**NOTE:** You may view the password by checking the “Show Password” box.

To select other pages (if authorized); make your selection under the left-hand Navigation column.

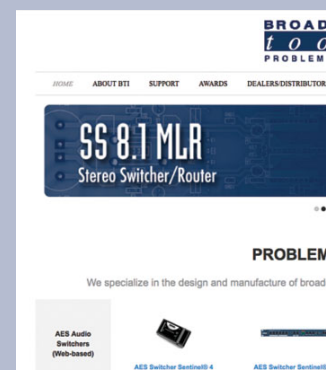
Eight Usernames and Passwords may be configured for up to three access levels.

1. “Admin” allows complete product configuration access.
2. “Monitor/Control” allows the following access:  
About, Monitor/Control, View Log, Help, and Logout.
3. “Monitor Only” allows the following access:  
About, monitor only, Show log (unable to clear log), Help, and Logout.

**NOTE:** After any item has been changed, you **MUST** press the “Save Settings” button for your changes to be saved.

### WEBSITE:

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“I/O” Setup Page

Metering

**BROADCAST tools** SITE Sentinel® 4

**NAVIGATION**  
 About  
 Monitor/Control  
 User Setup  
 I/O Setup  
 Email/Network Setup  
 Scheduler  
 Show Alarms  
 Help  
 Logout

Metering

Meter 1

**Meter Label**  
 Meter 1

**Meter Units**  
 V

**Calibration**  
 0.00 Save Cal

**Alarms**  
 High

**Email Addresses**  
 1 2 3 4 5 6 7 8

Low

Exit

**Log Device**

**Delay Time** 4

**Low Trip Point** 0.02

**High Trip Point** 0.07

Metering input selection: Select the metering inputs 1-4 for configuration.

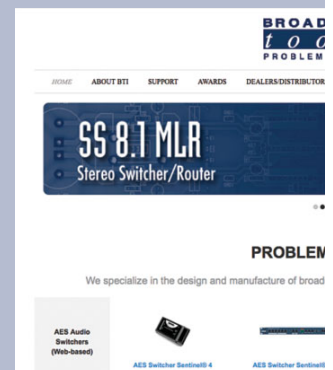
Meter Label: Used to identify the metering input source.

Metering Units: Label in engineering units, such as V = Volts, A = Amps, W = Watts, etc.

Calibration: Enter the value of the desired meter reading.

**NOTE:** In order to calibrate, a valid DC sample voltage must be applied to each input that you are calibrating. The calibration value must be positive and can support a resolution up to 2 decimal places. The user MUST press the “Save Cal” button in order to store the value. You do not need to press the “Save Settings” button to save the calibration, only other settings.

**WEBSITE:**  
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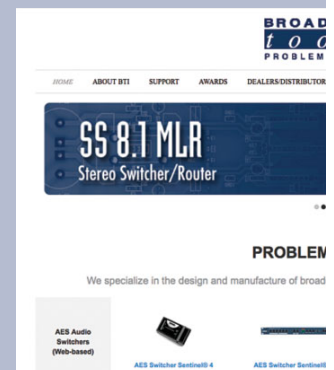


- Alarms High: This option enables the “High Trip Point” alarm.
- Alarms Low: This option enables the “Low Trip Point” alarm.
- Alarms Exit: This option enables notification after exiting an alarm.
- Email Addresses: These checkboxes allow you to assign up to up to 8 email addresses to the alarms.
- Log Device: This enables email snapshot logging of this device.
- Delay time: The delay is in (0 to 999) seconds. This option specifies the wait time from when a value is out of range before an alarm is activated.
- Low trip point: This option specifies the LOW alarm set point.
- High trip point: This option specifies the HIGH alarm set point.

**NOTE: After any item has been changed, you MUST press the “Save Settings” button for your changes to be saved.**

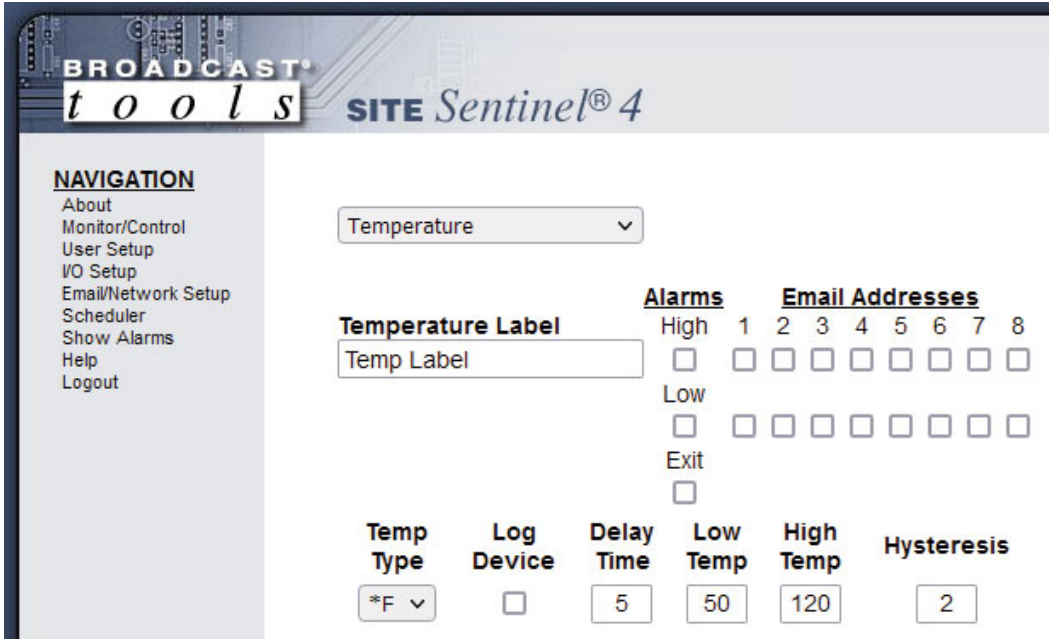
### WEBSITE:

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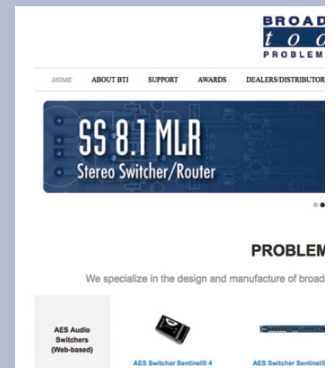
WEB SETUP

Temperature



- Temperature Label: Used to identify the temperature probe.
- Alarms High: This option enables the “High Trip Point” alarm.
- Alarms Low: This option enables the “Low Trip Point” alarm.
- Alarms Exit: This option enables notification after exiting an alarm.
- Email Addresses: This allows you to configure up to 8 emails to be sent whenever the input goes above or below a set-point.
- Log Device: This enables email snapshot logging of this device.
- Delay time: The delay is in (0 to 999) seconds. This option specify the wait time from when a value is out of range before an alarm is activated.
- Low Temp: This option specifies the LOW alarm set point.
- High Temp: This option specifies the HIGH alarm set point.
- Temp Type: This option specifies what scale will be displayed, Fahrenheit or Centigrade.

**WEBSITE:**  
 Visit our web site for product updates and additional information.



## Temperature

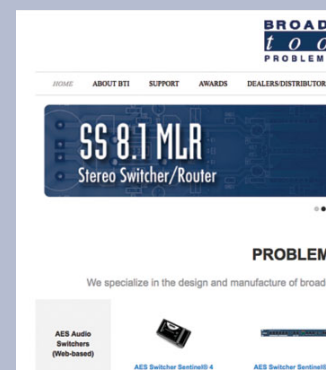
Hysteresis: Hysteresis (deadband), This option specifies the hysteresis used when evaluating alarm conditions.

**NOTE:** Hysteresis prevents alarms from toggling excessively when temperature is at the set point. This is due to normal fluctuation. For example, if the hysteresis is set to 1 degree, and a high alarm is to occur at 91 degrees, the hysteresis ensures that once the high alarm is triggered, it won't go off until the temperature returns to below 91 degrees (90 - 1). This reduces problems with small fluctuations in temperature readings triggering multiple alarms. Hysteresis is also used during low alarm conditions. If, for example, a low alarm is to occur at 43 degrees and the hysteresis is set to 1 degree, then once the low alarm is triggered, it won't go off until the temperature returns higher than 44 degrees (43 + 1).

**NOTE:** After any item has been changed, you **MUST** press the “Save Settings” button for your changes to be saved.

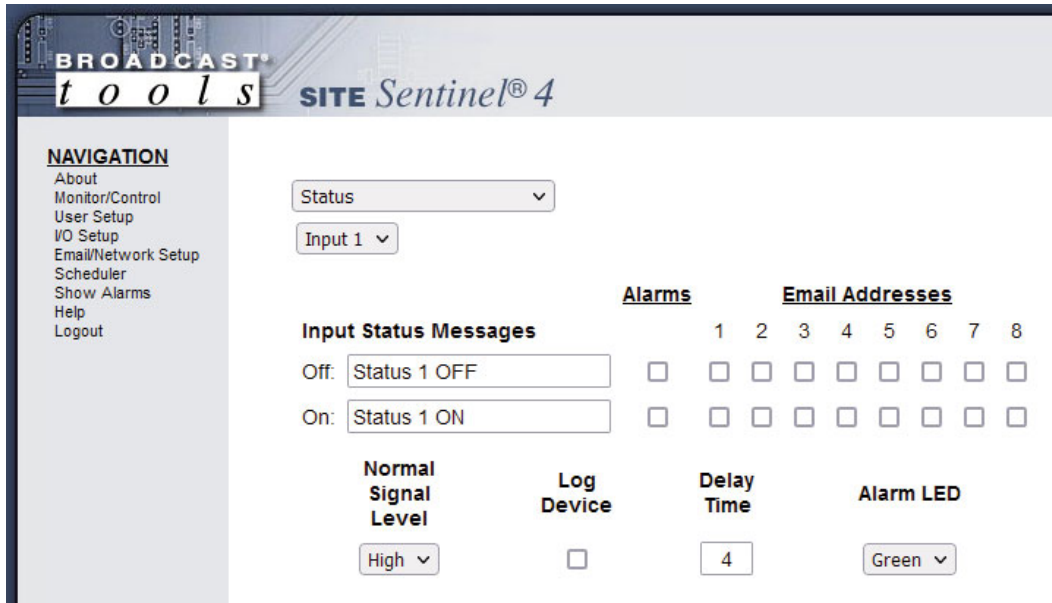
## WEBSITE:

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WEB SETUP

## Status



**BROADCAST tools SITE Sentinel® 4**

**NAVIGATION**  
 About  
 Monitor/Control  
 User Setup  
 I/O Setup  
 Email/Network Setup  
 Scheduler  
 Show Alarms  
 Help  
 Logout

Status   
 Input 1

Input Status Messages		Alarms		Email Addresses							
Off:	On:			1	2	3	4	5	6	7	8
Status 1 OFF	Status 1 ON	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Normal Signal Level:   
 Log Device:   
 Delay Time:   
 Alarm LED:

Input Status Messages: Used to identify the status input source.

Alarms OFF: This option enables alarms when the input is OFF.

Alarms ON: This option enables alarms when the input is ON.

Email Addresses: This allows you to configure up to 8 emails to be sent whenever the input is turned ON or OFF.

Normal Signal Level: This drop-down configures the input signal to be normally High or normally Low. This is used to determine if an input is ON or OFF.

**NOTE: When the "Normal signal level" is set to HIGH = NO voltage is applied to the input (WET or no closure when configured for DRY), it's considered OFF, when voltage IS applied (WET or completed closure set to DRY) to the input, it considered ON.**

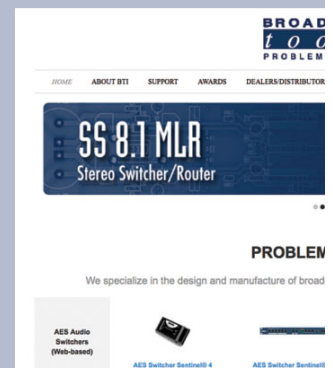
Log Device: This enables email snapshot logging of this device.

Delay time: The delay is in (0 to 999) seconds. This option specifies the wait time from when a value is out of range before an alarm is activated.

Alarm LED: User defined color of indicator LED graphic on the Monitor and Control page when in an alarm condition.

**NOTE: After any item has been changed, you MUST press the "Save Settings" button for your changes to be saved.**

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Relays 1 - 4

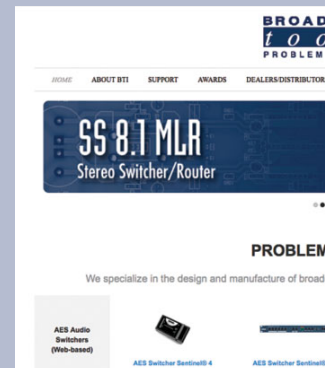
The screenshot shows the 'Relays & Power Controller' configuration page for 'Relay 1'. The interface includes a navigation menu on the left with options like 'About', 'Monitor/Control', 'User Setup', 'I/O Setup', 'Email/Network Setup', 'Scheduler', 'Show Alarms', 'Help', and 'Logout'. The main configuration area has several sections:

- Relays & Power Controller:** A dropdown menu set to 'Relay 1'.
- Relay Label:** A text input field containing 'Relay 1'.
- Action State:** A dropdown menu set to 'Off'.
- Pulse (ms):** A dropdown menu set to '1000'.
- Event Action Sequencer:**
  - An 'Enable' checkbox that is currently unchecked.
  - A 'When' dropdown set to 'Meter', followed by a value '1' in a dropdown, the word 'is', and another dropdown set to 'in High Alarm'.
  - A 'delay' input field set to '2' (sec) followed by 'then engage for' and another input field set to '5' (sec).
- Alarms and Email Addresses:** A grid of checkboxes for configuring alarms and email addresses for 8 different email addresses. The 'On' and 'Off' columns are currently empty.

- Relay label: Used to identify the device/relay.
- Alarms OFF: This option enables alarms when the relay is OFF.
- Alarms ON: This option enables alarms when the relay is ON.
- Email Addresses: This allows you to configure up to 8 emails to be sent whenever the relay is turned ON or OFF.
- Pulse: This is the number of milliseconds the relay will be toggled when the pulse is activated.

**NOTE: Pulse will toggle the relay, delay for the specified amount of time and then toggle the relay again. If the relay is already on, Pulse will turn it off, delay then turn it on.**

**WEBSITE:**  
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## Relays - Event Action Sequencer

Event action sequencer: Used to perform a relay function when other I/O devices are within/outside the configured range.

Enable: Enables the event action sequencer for each relay.

Action: When (meter, status, silence sensor, power failure or temperature) (input number) is (in? condition) delay (xx) seconds then engage for (xx) seconds.

Event action sequencer EXAMPLE: When (meter) (1) is (in High Alarm) delay (1) seconds then engage for (2) seconds.

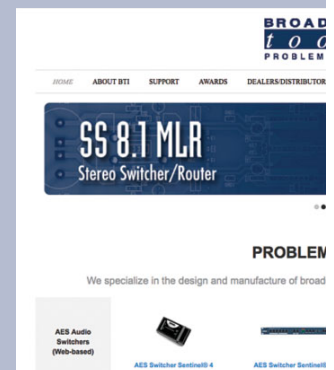
In the above example: When [metering input] [1] is [in high alarm] for more than [1] second, (the desired relay) then engage for [pulse] 2 seconds.

**NOTE:** To enable relay latch/sustained type operation, the [Engaged] time should be set to 0 seconds.

**NOTE:** After any item has been changed, you **MUST** press the “Save Settings” button for your changes to be saved.

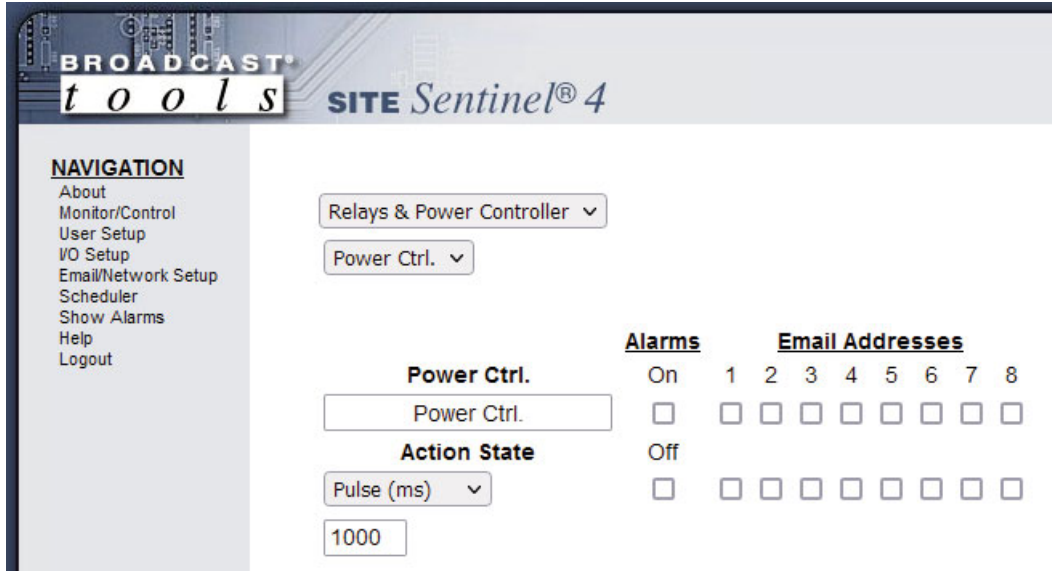
### WEBSITE:

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WEB SETUP

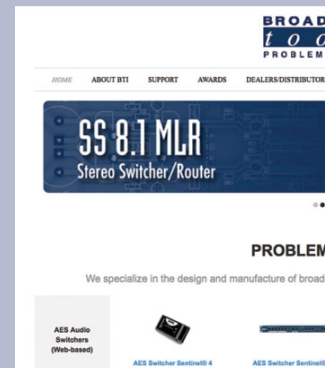
Power Controller



- Power Ctrl label: Used to identify the device.
- Alarms OFF: This option enables an alarm when the relay is OFF.
- Alarms ON: This option enables an alarm when the relay is ON.
- Email Addresses: This allows you to configure up to 8 emails to be sent whenever the relay is turned ON or OFF.
- Pulse: This is the number of milliseconds the relay will be toggled when the pulse is activated.
- Reboot: Reboot is identical to Pulse except that it uses minutes instead of milliseconds.

**NOTE: After any item has been changed, you MUST press the “Save Settings” button for your changes to be saved.**

**WEBSITE:**  
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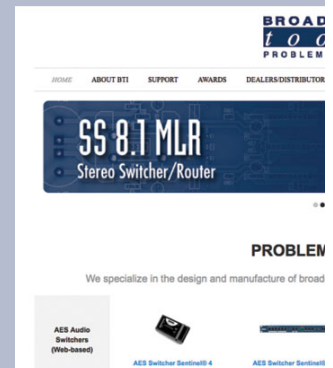
## Silence Sensor

The screenshot shows the 'Silence Sensor' configuration page in the Broadcast Tools Site Sentinel 4 web interface. The page has a navigation menu on the left and a main configuration area. The main area includes a dropdown menu for 'Silence Sensor', a 'Label' field containing 'Silence Sensor', and two rows of checkboxes for 'Alarms Enter' and 'Alarms Exit', each with 8 columns. Below these are four input fields: 'Log Device' (checkbox), 'Delay Time' (5), 'Restore Time' (2), and 'Trip Level' (-25).

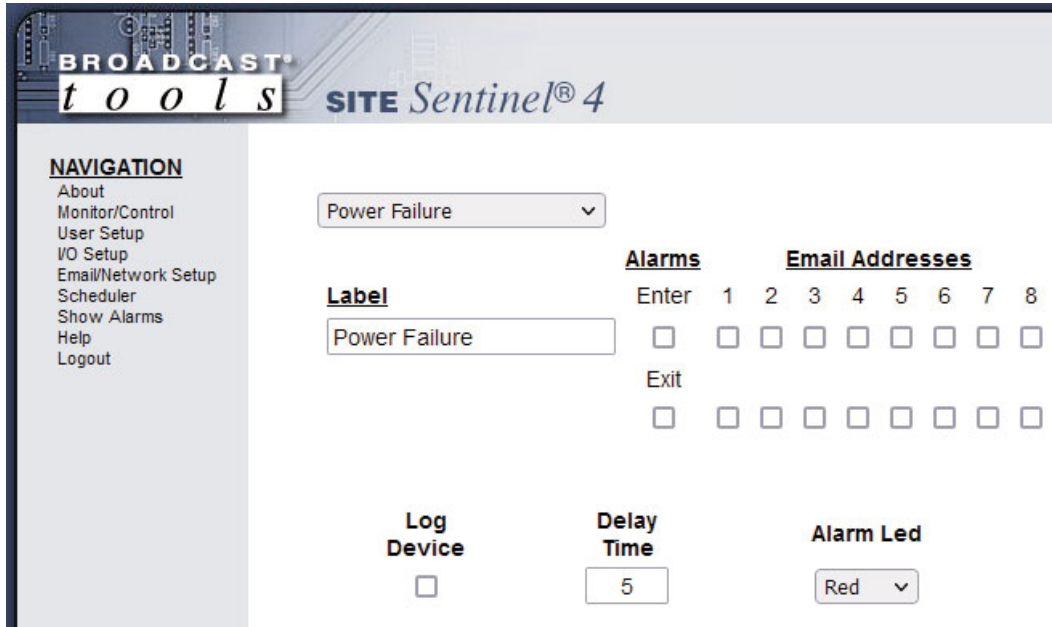
- Label: Used to identify the monitoring source.
- Alarms Enter: This option enables an alarm if the input source is silent.
- Alarms Exit: This option enables an alarm when the input source exits a silence alarm state.
- Email Addresses: This allows you to configure up to 8 emails to be sent whenever the input enters or exits an alarm.
- Log Device: This enables email snapshot logging of this device.
- Delay Time: The delay is in (0 to 999) seconds. This option specifies the wait time from when a value is out of range before an alarm is activated.
- Restore Time: The restore delay in (0 to 999) seconds. The input source must be good for this amount of time before the alarm is cleared.
- Trip Level: The value in dB when the input source is silent, between -25 & -35 db.

**NOTE: After any item has been changed, you MUST press the “Save Settings” button for your changes to be saved.**

**WEBSITE:**  
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## Power Failure



**BROADCAST tools** SITE Sentinel® 4

**NAVIGATION**  
 About  
 Monitor/Control  
 User Setup  
 I/O Setup  
 Email/Network Setup  
 Scheduler  
 Show Alarms  
 Help  
 Logout

Power Failure

Label	Alarms	Email Addresses
	Enter	1 2 3 4 5 6 7 8
Power Failure	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Exit	
	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Log Device:

Delay Time:

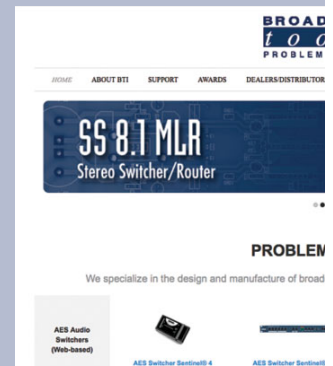
Alarm Led:

- Label:** Used to identify the monitoring source.
- Alarms Enter:** This option enables an alarm when voltage is no longer present on this input.
- Alarms Exit:** This option enables an alarm when voltage returns.
- Email Addresses:** This allows you to configure up to 8 emails to be sent whenever the input enters or exits an alarm.
- Log Device:** This enables email snapshot logging of this device.
- Delay Time:** The delay is in (0 to 999) seconds. This option specifies the wait time from when a value is out of range before an alarm is activated.
- Alarm LED:** User defined color of LED on the Monitor and Control page when in an alarm condition.

**NOTE:** After any item has been changed, you **MUST** press the “Save Settings” button for your changes to be saved.

**NOTE:** The Site Sentinel® 4 G2 factory defaults may be restored by holding the “Default” button IN, repowering the unit, wait for the SS and PF LED’s to flash, then release the “Default” button. Contact [support@broadcasttools.com](mailto:support@broadcasttools.com) for additional reset procedures.

**WEBSITE:**  
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## “Email/Network Setup” Web Page

### Email / Network Setup

Device Address

Device Netmask

Gateway Address

DNS Server Address

HTTP Port

SMTP Server Address

SMTP Port

SMTP Return Address

SMTP Host ID

SMTP Authentication

SMTP Username

SMTP Password

show password

Logging Email Address

Logging Email Snapshot Interval (Hours)

Logging Email Update Interval (Hours)

Email Alarms  Immediately  
 Daily

Daily Alarm Email Time (Hour)

Recipient Addresses

1

2

3

4

5

6

7

8

SNMP Trap IP Address 1

2

SNMP Manager Trap Port

SNMP Read Community

SNMP Write Community

SNMP Enable Traps

NTP Server Address

NTP Port

NTP Update Interval (Minutes)

NTP Enabled

Site ID

Monitor Refresh Time  Seconds

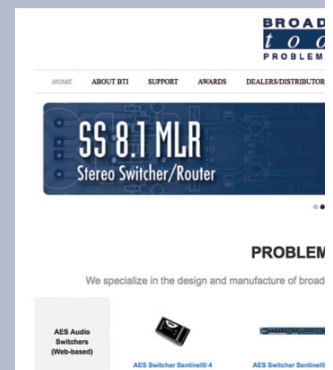
MTU Size

Time Zone Offset from UTC

Enable Event Logging  Login  
 Email  
 Reboot  
 Alarms Cleared

### WEBSITE:

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### WEB SETUP

## “Email/Network Setup” Web Page – Device Network Settings

Device Address:	Enter a static IP address here.	Default: 192.168.1.55
Device Netmask:	Enter the Netmask here:	Default: 255.255.255.0
Gateway Address:	Enter the Gateway IP here:	Default: 192.168.1.1
DNS Server IP Address:	Enter your DNS address here.	Default: 192.168.1.1
HTTP Port:	Normally Port 80	Default: 80

## “Email/Network Setup” Web Page – SMTP Settings

SMTP Server Address: The user can enter either an IP address in the xxx.xxx.xxx.xxx format or a URI in the form: smtp.com-cast.net. To resolve the URI, the unit’s DNS/gateway configuration must be valid.

SMTP Port: Normally Port 25, 587, or 2525 Default: 25

SMTP Return Address: Enter your return email here. If an email cannot be delivered a message stating why it will be sent to this address.

**NOTE: You must enter the following items before an email can be successfully sent SMTP Server Address, SMTP Port, SMTP Return Address, and recipient address #1. SMTP username and SMTP password must be supplied if authentication is turned on. Test emails are sent to email recipient address #1 and the logging address only.**

Press the “Save Settings” button after entering the SMTP information before attempting an email test. If authentication fails, the email is not sent, please ensure that the username and password are correct.

SMTP Host ID: Enter the device IP address as identifier.

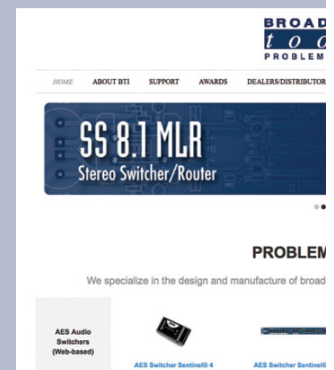
SMTP Authentication: When checked, Base64 SMTP authentication is used. SSL/TLS secure authentication required by Gmail/Outlook is not supported.

SMTP Username: Enter SMTP server username here.

SMTP Password: Enter SMTP server password here.

### WEBSITE:

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## “Email/Network Setup” Web Page – Email Logging Settings

- Logging Email Address: Email address for the “Logging” email recipient (may be different from the 8 “Alarm” Recipient Addresses. Logging emails and Daily emails are sent to this address only.
- Logging Email Snapshot Int.: The period in hours that a snapshot is taken of the system. Logging emails are not sent during this interval.
- Logging Email Update Int.: The period in hours that snapshots are emailed. This email may contain multiple snapshots if the Snapshot Interval is less than the Update Interval. Each snapshot will be identified by the date and time.

## “Email/Network Setup” Web Page – Email Alarm Settings

- Email Alarms: Choose Immediate and/or daily. If Immediate is selected, then an email will be sent out as soon as an alarm is generated. If Daily is selected, then each alarm is queued and emailed as a digest every 24 hours. Both can be used at the same time. The number of alarms queued is displayed on the Monitor/Control page.
- Daily Alarm Email Time: The hour of the day that queued alarms are sent. Queued alarms are sent to the Logging Email Address only.
- “Alarm” Recipient Address: Email addresses for up to 8 addresses. These addresses correlate to the 8 email addresses selectable on the I/O Setup page.

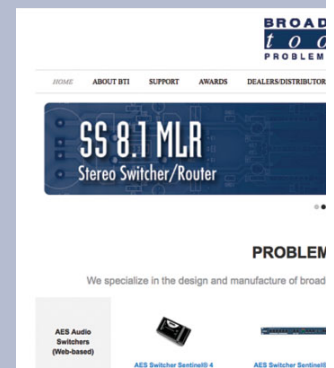
## “Email/Network Setup” Web Page – SNMP Manager Settings

- SNMP Enable: Enables or disables SNMP functionality, enabled by default.
- SNMP Enable Traps: When enabled, SNMP trap messages will be sent. When disabled, no trap messages will be sent to the manager IP.
- SNMP Trap IP Addresses: This is the IP address of the SNMP manager. The system will send traps to UDP port 162 at these IP addresses.
- SNMP Read Community: This is the community name used for Read-Only access.
- SNMP Write Community: This is the community name used for Read-Write access.

**NOTE: A cold-start trap will be sent when the unit boots up if the SNMP Enable Traps are enabled and trap messages will be sent when a device enters or exits an alarm condition, depending on whether alarms are enabled.**

### WEBSITE:

*Visit our web site for product updates and additional information.*



### WEB SETUP

### “Email/Network Setup” Web Page – Network Time Protocol (NTP) Settings

NTP Enabled: Enable for NTP network time sync. Default: Enabled  
NTP (Time) Server Address: Enter the NTP address here. Default: pool.ntp.org  
NTP Port: Port used to connect to NTP server. Default: 123  
NTP Update Interval (Min): Interval between time updates. Default: 30

### “Email/Network Setup” Web Page – Other Settings

Site ID: This is the Site Identifier that is displayed on the web and in email.

Monitor Refresh Time (Sec): Interval at which the Monitor page refreshes. Shorter times may increase network traffic. Default: 1

MTU Size: Sets the network interface’s Maximum Transmittable Unit. 1400 by default. If a VPN or cellular data is being used this may need to be reduced to 1296 to account for added overhead.

Time Zone Offset from UTC: Sets the time zone used for the internal clock. Default: -8

Enable Event Logging: Enabling these checkboxes will generate an alarm, but will not send an email. If the system is configured for Daily Alarm emails, then that Daily Alarm email will contain the Event Logging items as well.

Login: Whenever someone logs into the system, the username and date/time will be logged.

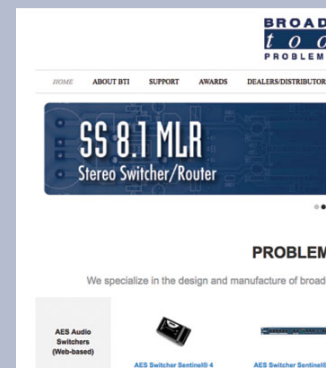
Email: Whenever an email is sent, the type of email and date/time will be logged.

Reboot: Whenever the device boots, the date/time will be logged.

Alarms Cleared: Whenever the Daily Logs or Normal Alarms are cleared, the type of log cleared, and date/time will be stored. When Daily Logs are sent, the Daily Logs are also cleared; this will cause an event log as well.

### WEBSITE:

*Visit our web site for product updates and additional information.*



### “Email/Network Setup” Web Page – Controls

**Save Settings:** After pressing the “Save Settings” button, the device will reboot (If you changed the IP address, you must navigate your web browser to the new IP address (if the HTTP port was changed from port 80, be sure to add the new port number after the IP: xxx.xxx.xxx.xxx:port #). If you didn’t change the IP address, then the web page will return to the login screen after the device reboots.

**Reboot Device:** When you press the “Reboot Device” button, the device resets, you must navigate your web browser to the new IP address.

**Send Test Email:** Press this button to send a test email. When the email has completed, an alert box will pop-up, indicating the status of the email and an error condition if the email was not sent correctly. Test emails are sent to email recipient address #1 and the logging address only.

**NOTE: After you are done making changes to the Email/Network Setup page, you MUST press the “Save Settings” button to save your changes.**

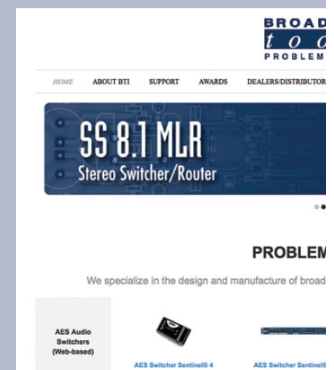
**Reload Defaults:** When you press the “Reload Defaults” button, the device Resets to default settings, you must navigate your web browser to the new IP address (if the HTTP port was changed from port 80, be sure to add the new port number after the IP: xxx.xxx.xxx.xxx:port #).

**Clear Daily Logs:** When you press the “Clear Daily Logs” button, the daily logs stored in memory will be cleared. Keep in mind that if the Alarms Cleared Event is enabled, this event will be posted after the logs are cleared.

**Send Daily Logs:** When you press the “Send Daily Logs” button, the system will send the daily logs email and then clear those logs as if the correct time has expired.

### WEBSITE:

*Visit our web site for product updates and additional information.*



## “Show Alarms” Alarm Log Web Page

Device	Enter/Exit	Date	Time
Status 1 OFF	EXIT	4/29/2026	15:44:43
Status 1 ON	ENTER	4/29/2026	15:44:23

Last Updated 4/29/2026 15:44:51

This page displays current alarms.

**Device:** Displays of which device and/or devices triggered the alarm.

**Enter/Exit:** Displays if the alarm is entering or exiting an alarm condition.

**Date:** Displays what date the alarm was logged.

**Time:** Displays what time the alarm was logged.

**NOTE:** With the “admin” access level, the user may control all functions.

With the “Monitor/Control” or “Monitor” only access level, the user may view the “Show Log”, enable/disable PC speaker sound and silence alarms.

### WEBSITE:

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WEB SETUP

## “Scheduler” Setup Page

Time/Date 15:52:24 12/3/2012

Event #	Enable	Event	Device	Frequency	Date Type	Date	Time	Next Event	Delete	Execute
1	<input checked="" type="checkbox"/>	Adjust Time	+1 Hr	One Time	Exact Date	Mar - 10	02:00:00	2:00:00 3/10/2013	<input type="button" value="Delete"/>	<input type="button" value="Execute"/>
2	<input checked="" type="checkbox"/>	Adjust Time	-1 Hr	One Time	Exact Date	Nov - 3	02:00:00	2:00:00 11/3/2013	<input type="button" value="Delete"/>	<input type="button" value="Execute"/>
3	<input checked="" type="checkbox"/>	Pulse							<input type="button" value="Delete"/>	<input type="button" value="Execute"/>
4	<input type="checkbox"/>	Pulse							<input type="button" value="Delete"/>	<input type="button" value="Execute"/>
5	<input type="checkbox"/>	Toggle							<input type="button" value="Delete"/>	<input type="button" value="Execute"/>
6	<input type="checkbox"/>	Adjust Time							<input type="button" value="Delete"/>	<input type="button" value="Execute"/>
7	<input type="checkbox"/>	Enable Alarm							<input type="button" value="Delete"/>	<input type="button" value="Execute"/>
8	<input type="checkbox"/>	Disable Alarm							<input type="button" value="Delete"/>	<input type="button" value="Execute"/>
9	<input type="checkbox"/>	Execute Macro							<input type="button" value="Delete"/>	<input type="button" value="Execute"/>
10	<input type="checkbox"/>	Click for new schedule.							<input type="button" value="Delete"/>	<input type="button" value="Execute"/>
11	<input type="checkbox"/>	Click for new schedule.							<input type="button" value="Delete"/>	<input type="button" value="Execute"/>
12	<input type="checkbox"/>	Click for new schedule.							<input type="button" value="Delete"/>	<input type="button" value="Execute"/>

The Scheduler allows for complete control of your Site Sentinel 4 G2 remote control by providing the ability to schedule when alarms are enabled or disabled, pulse or toggle relays, and even adjust the time for daylight savings.

All 100 events can be enabled or disabled; only enabled events are processed and events are executed one at a time. To prevent conflicts only one event should be scheduled for any given day/hour/minute/second. Each schedule event consists of 2 main components, the action to do (event) and when to do it (date/time).

Schedule events are entered in the "Scheduler" menu shown above. Empty/unused schedule slots will have the text "Click for new schedule" listed in the "Event" column. When you select a cell in the scheduler table it will transform into the available options for that cell. Blue colored cells are unselected and are saved while red colored cells are unselected and are not saved. Yellow colored cells are selected. There can only be one cell selected at a time and changing some cells may change other cells. It is best to work left to right when configuring a schedule event.

To select a cell, click in the cell box and it will transform, the background will turn yellow, and you should see either drop down boxes or checkboxes to select from. To unselect a cell, click inside the yellow portion of the cell or onto another cell. Clicking on another cell will select that cell if it can be selected.

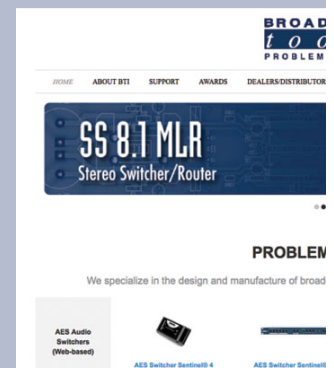
At the top and bottom of the "Scheduler" page are "Refresh" and "Save" buttons. All red cells on the scheduler page have not been saved and will not be stored or executed until saved. To restore from the previously saved schedules click the "refresh" button.

The last 3 cells of each schedule event are the "Next Event", "Delete", and "Execute" items. "Next Event" lists the date and time that the event is scheduled to occur next. "Delete" will delete the schedule but still require savings before the change is permanent. "Execute" will execute the action immediately regardless of whether it's enabled for scheduled to occur, ensure that you save before executing a schedule event. Changes are not stored until the save button is pressed.

**NOTE: The Scheduler page does not auto refresh, please click “refresh” to update the “Next Event” time.**

### WEBSITE:

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“Scheduler” Setup Page cont. - Actions

Event #	Enable	Event	Device	Freq
1	<input checked="" type="checkbox"/>	Enable Alarm	Metering	
2	<input type="checkbox"/>	Click for new schedule.	Metering	
3	<input type="checkbox"/>	Click for new schedule.	Temperature	
4	<input type="checkbox"/>	Click for new schedule.	Virtual Chan.	
5	<input type="checkbox"/>	Click for new schedule.	Status	
			Relays	
			Silence Sensor	
			Power Failure	

**Enable/Disable Alarms:** Alarms for every device that the Site Sentinel 4 G2 monitors can be enabled and disabled by the scheduler. Select the appropriate "Enable Alarm" or "Disable Alarm" from the "Event" drop down box on the Scheduler Setup Page to configure this item. Then from the "Device" drop down box select from the monitored device types and the device numbers.

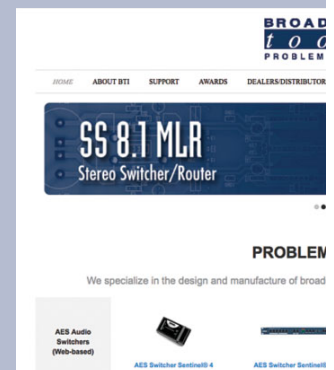
Event #	Enable	Event	Device	Freq
1	<input checked="" type="checkbox"/>	Pulse	Raise 3	
2	<input type="checkbox"/>	Click for new schedule.	Raise 1	
3	<input type="checkbox"/>	Click for new schedule.	Raise 2	
			Raise 3	
			Raise 4	

**Pulse/Toggle:** Relays can be pulsed or toggled from the scheduler as well. Select "Pulse" or "Toggle" from the "Event" drop down box on the Scheduler Setup Page to configure this item. Then from the "Device" drop down box select the relay you wish to control. The Pulse duration is configured on the "Relay Setup Page" under "I/O Setup".

Event #	Enable	Event	Device	Freq
1	<input checked="" type="checkbox"/>	Adjust Time	-1 Hr	
2	<input type="checkbox"/>	Click for new schedule.	-1 Hr	
			+1 Hr	

**Adjust Time:** To assist with daylight savings adjustment, the Site Sentinel 4 G2 can add or subtract 1 hour from the time-zone offset. Time-zone offset is initially configured under "Email/Network Setup" and this adjustment will change that value at the scheduled time. Select "Adjust Time" from the "Event" drop down box then from the "Device" drop down box select either "-1 Hr" or "+1 Hr" to decrement or increment the time-zone offset.

**WEBSITE:**  
 Visit our web site for product updates and additional information.



## Configuring Event Time:

Event #	Enable	Event	Device	Frequency
1	<input checked="" type="checkbox"/>	Pulse	Raise 1	One Time
2	<input type="checkbox"/>	Click for new schedule.		One Time Repeat

**Frequency:** Scheduled events can be initiated either on a repeat or one-time basis. One-time events will be disabled after executing while repeat events will continue to be rescheduled. Select either "Repeat" or "One Time" from the "Frequency" drop down.

**Date:** Selecting when an event occurs can be based on either an exact date (Month/Day) or based on specific days of the week and months in the year. One-time events can only be scheduled for an exact date, while repeat events can be scheduled for either exact dates or day/months.

Event #	Enable	Event	Device	Frequency	Date Type	Date
1	<input checked="" type="checkbox"/>	Pulse	Raise 1	One Time	Exact Date	Jul 1
2	<input type="checkbox"/>	Click for new schedule.				1
3	<input type="checkbox"/>	Click for new schedule.				2
4	<input type="checkbox"/>	Click for new schedule.				3

To select the Date for an "Exact Date" type choose the month and day from the two drop down boxes under "Date"

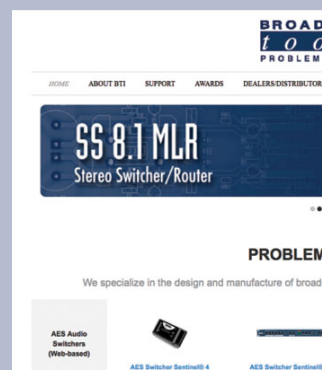
Event #	Enable	Event	Device	Frequency	Date Type	Date
1	<input checked="" type="checkbox"/>	Pulse	Raise 1	Repeat	Days/Months	<div style="text-align: center;"> <b>Su M T W Th F Sa</b>  <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>  <b>Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec</b>  <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> </div>

To select the date for a "Day/Months" type choose the months and days of the week by checking the checkboxes under "Date" for the days of the week and months of the year that you want this event to happen.

Event #	Enable	Event	Device	Frequency	Date Type	Date	Time
1	<input checked="" type="checkbox"/>	Pulse	Raise 1	Repeat	Days/Months	M-T-W-Th-F Jan-Feb-Mar-Apr-May-Jun-Jul-Aug-Sep-Oct-Nov-Dec	Hr: 8 Min: 20 Sec: 0

**Time:** Selecting the time of day an event occurs is accomplished using the "Time" column. Hours are referenced as Military Time and include 0-23 as well as "All Hours". When "All Hours" is selected the event will be scheduled for all hours on the day it is scheduled to be executed, otherwise it is only scheduled for the specific hour. Events can also be configured to execute at a specific minute and second, though no "All Hours" options exist for minutes and seconds.

**WEBSITE:**  
*Visit our web site for product updates and additional information.*



## “About” Web Page

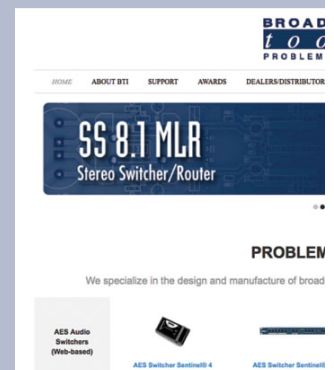


<b>NAVIGATION</b> About Monitor/Control User Setup I/O Setup Email/Network Setup Scheduler Show Alarms Help Logout	<b>Broadcast Tools, Inc.</b> <b>Device Name</b> Site Sentinel 4 <b>Firmware Version</b> SS4X05_v2.27 <b>PIC Firmware Version</b> SS4P_V1.06 <b>Web page Version</b> SS4W_V1.47 <b>Home page</b> <a href="http://www.BroadcastTools.com">www.BroadcastTools.com</a>
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The “About” Web Page displays the product name, firmware version numbers, and Broadcast Tools® Web site link.

## WEBSITE:

*Visit our web site for product updates and additional information.*



## WEB SETUP

## Specifications

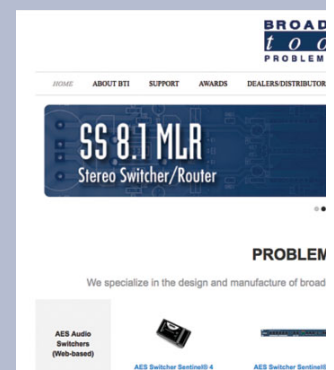
Ethernet Interface:	RJ-45, 10Base-T or 100Base-TX, auto sensing with Link & activity indicator - Full/half duplex.
Control Logic:	Microcontroller with non-volatile memory and web server.
Temperature Sensor:	Probe (optional) with 25-foot cable and 3.5mm T/R/S plug. -67°F to +257°F (-55°C TO +125°C).
Silence Sensor:	Stereo unbalanced 22K ohm inputs. Input level: -15dBu to +24dBu. <b>Note: Summed too monaural.</b>
Control Relays:	Four SPDT normally open/closed dry contacts, 30 VDC @ 1 amp max.
Power Controller Relay:	SPDT dry contacts. 30 VDC 1 amp max, or wet +5V/GND. Jumper configurable.

**CAUTION! For safety, never connect 120 Vac circuits to the above relays!**

Metering (analog) inputs:	Four - Buffered single ended (ground referenced) 0 to +10 VDC input range. 22K ohm input Z. 10-bit resolution.
Status/Logic inputs:	Four - Optically Isolated (3.3 to 24 VDC, or 25-48 VDC via an external resistor) wet or dry inputs. Default = Dry (5 volts internally sourced). With front panel LED indicators.
Power Failure/Power 2 input:	9 VDC @ 1 amp, center positive. 2.1mm x 5.5mm coax type. Redundant/power fail input.
Connectors:	Metering (analog), status, relays and silence sensor audio input: Removable euroblock screw terminals, 2 x 2.1mm x 5.5mm coax type power jacks and 1/8" T/R/S mini-jack temp probe.
EMI / FCC Compliance:	<b>See the Declaration of Conformity page.</b> Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) this device must accept any interference received, including that which may cause undesired operation.
Operating Environment:	32°F/0°C-122°F/50°C; 0%-95% non-condensing relative humidity; 10,000ft/3048m.
Power Supply:	9 VDC @ 1 amp. 2.1mm ID x 5.5mm OD coaxial connector, center positive. Surge protected. Universal (100 - 240 vac / 50/60 Hz) with IEC input plug with domestic AC cord.
Size:	5.66" x 7.125" x 1.58", aluminum extrusion chassis with (4) #6-32 screw thread mounting holes for optional RA-1 rack shelf.
Weight:	2.0 lb.
Options:	* Temp Probe, external temperature probe with 25-foot cable and 3.5mm T/R/S plug * RA-1, 1-RU rack shelf. Accommodates 3 units.

## WEBSITE:

*Visit our web site for product updates and additional information.*



## SPECIFICATIONS

## LIMITED WARRANTY

The term “Buyer” as used in this document refers to and includes both (but only) (a) any person or entity who acquires such an item for the purpose of resale to others (i.e., a dealer or distributor of an item), and (b) the first person or entity who acquires such an item for such person’s or entity’s own use.

Broadcast Tools warrants to each Buyer of any item manufactured by Broadcast Tools that the item will be free from defects in materials and workmanship at the time it is shipped by Broadcast Tools if the item is properly installed, used and maintained.

## EXCLUSIVE REMEDIES

If Broadcast Tools is notified, in writing, of a failure of any item manufactured by Broadcast Tools to conform to the foregoing Limited Warranty within one (1) year following the date of the Buyer’s acquisition of the item, and if the item is returned to Broadcast Tools in accordance with Broadcast Tools’ instructions for confirmation by inspection of the defect (which at Broadcast Tools’ election may include, without limitation, a requirement that the Buyer first obtain a Return Authorization number from Broadcast Tools, that the Buyer furnish proof of purchase in the form of an invoice and/or receipt, and that the Buyer prepay all freight charges associated with any return of the item to Broadcast Tools using such freight service as Broadcast Tools reasonably may specify), Broadcast Tools will repair or replace the defective item, or will refund the purchase price paid by the Buyer for the item. Broadcast Tools shall have the exclusive right to choose between these alternative remedies.

## NO OTHER WARRANTIES OR REMEDIES

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, BROADCAST TOOLS AND ITS SUPPLIERS DISCLAIM ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE; AND THE FOREGOING ALTERNATIVE REMEDIES SHALL BE EXCLUSIVE OF ALL OTHER REMEDIES. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS, WHICH VARY FROM STATE/JURISDICTION TO STATE/JURISDICTION.

## NO LIABILITY FOR CONSEQUENTIAL DAMAGES

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, NEITHER BROADCAST TOOLS NOR ANY OF ITS SUPPLIERS SHALL HAVE ANY LIABILITY FOR ANY SPECIAL, INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES WHATSOEVER (INCLUDING, WITHOUT LIMITATION, ANY DAMAGES FOR LOST PROFITS, BUSINESS INTERRUPTION, LOSS OF DATA OR INFORMATION, COST OF CAPITAL, CLAIMS OF CUSTOMERS, OR ANY OTHER PECUNIARY LOSS) ARISING OUT OF THE USE OF OR THE INABILITY TO USE ANY ITEM SUPPLIED BY BROADCAST TOOLS, EVEN IF BROADCAST TOOLS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES HAVE ANY LIABILITY FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY OR PUNITIVE DAMAGES. THIS LIMITATION OF LIABILITY APPLIES WHETHER A CLAIM IS ONE ALLEGING BREACH OF A CONTRACT OR WARRANTY, NEGLIGENCE OR OTHER TORT, FOR THE VIOLATION OF ANY STATUTORY DUTY, THE FAILURE OF ANY LIMITED OR EXCLUSIVE REMEDY TO ACHIEVE ITS ESSENTIAL PURPOSE, OR ANY OTHER CLAIM OF ANY NATURE. BECAUSE SOME STATES AND JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, THIS LIMITATION MAY NOT APPLY TO YOU.

### **Broadcast Tools, Inc.**

131 State Street  
Sedro-Woolley, WA 98284 • USA

360.854.9559 **voice** • 866.783.1742 **fax**  
support@broadcasttools.com **e-mail**  
www.broadcasttools.com **website**

## Declaration of Conformity

The XPORT Device contained in the Site Sentinel® 4 G2 conforms to the following standards: (according to ISO/IEC Guide 22 and EN 45014)

### Manufacturer's Name & Address:

Site Sentinel® 4 G2:  
Broadcast Tools, Inc.  
131 State Street.  
Sedro Woolley, WA 98284-1503 USA

### XPORT:

Lantronix 15353 Barranca Parkway, Irvine, CA 92618 USA  
Declares that the following product:

Product Name Model: XPORT® Device Server

Conforms to the following standards or other normative documents:

### Electromagnetic Emissions:

EN55022: 1998 (IEC/CSP122: 1993) Radiated RF emissions, 30MHz-1000MHz  
Conducted RF Emissions – Telecom Lines – 150KHz - 30MHz  
FCC Part 15, Subpart B, Class B  
IEC 1000-3-2/A14: 2000  
IEC 1000-3-3: 1994

### Electromagnetic Immunity:

EN55024: 1998 Information Technology Equipment-Immunity Characteristics  
Direct ESD, Contact Discharge  
Indirect ESD  
Radiated RF Electromagnetic Field Test  
Electrical Fast Transient/Burst Immunity  
RF Common Mode Conducted Susceptibility  
Power Frequency Magnetic Field Test

### Manufacturer's Contact:

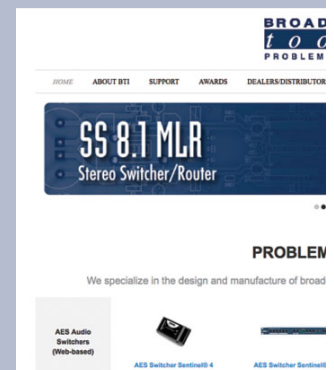
Site Sentinel® 4 G2  
Broadcast Tools, Inc.  
131 State Street  
Sedro Woolley, WA 98284-1503 USA  
Tel: 360.854.0608 Fax: 866.783.1742

### XPORT

Lantronix:  
Director of Quality Assurance  
15353 Barranca Parkway, Irvine, CA 92618 USA  
Tel: 949.453.3990 Fax: 949.453.3995

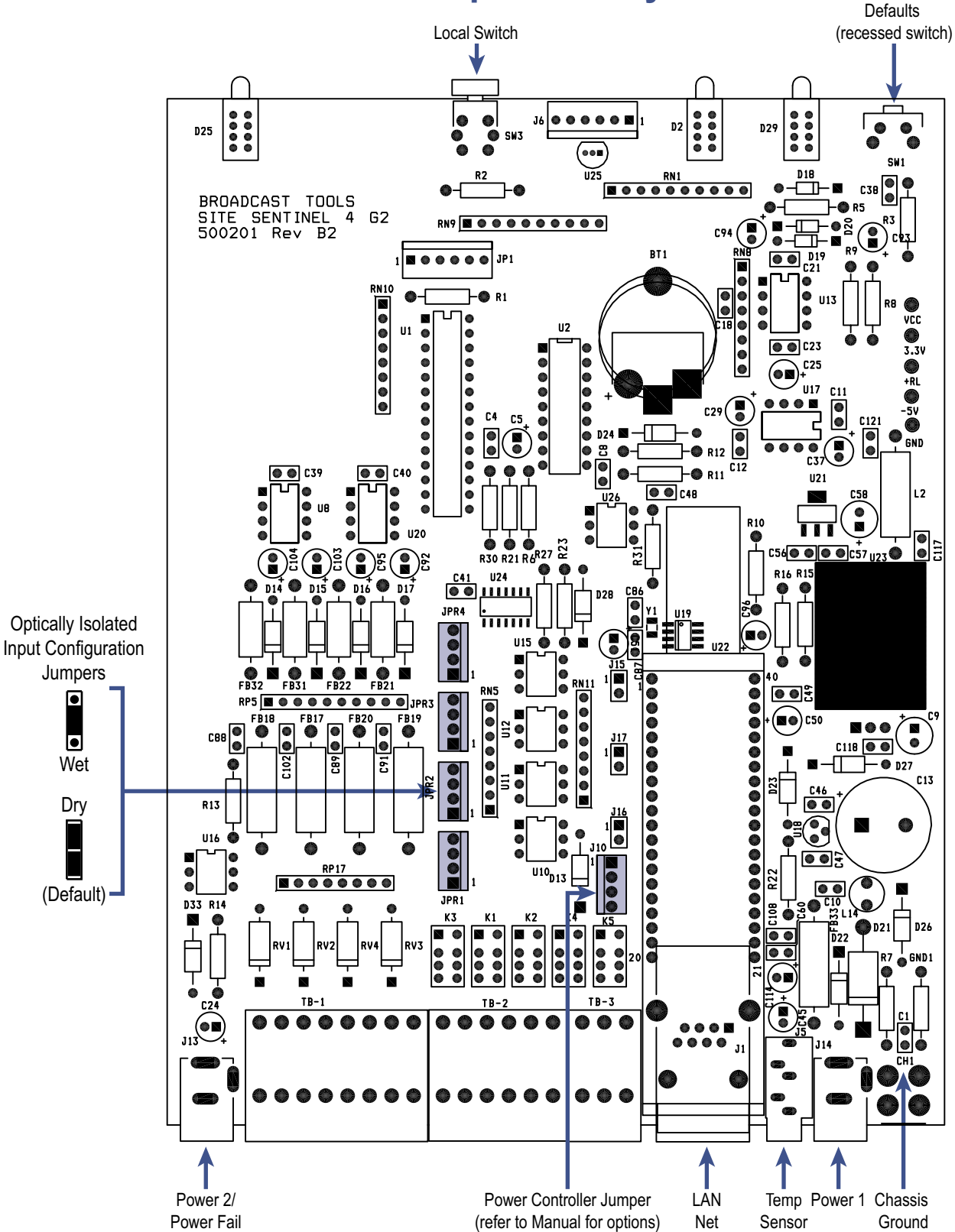
### WEBSITE:

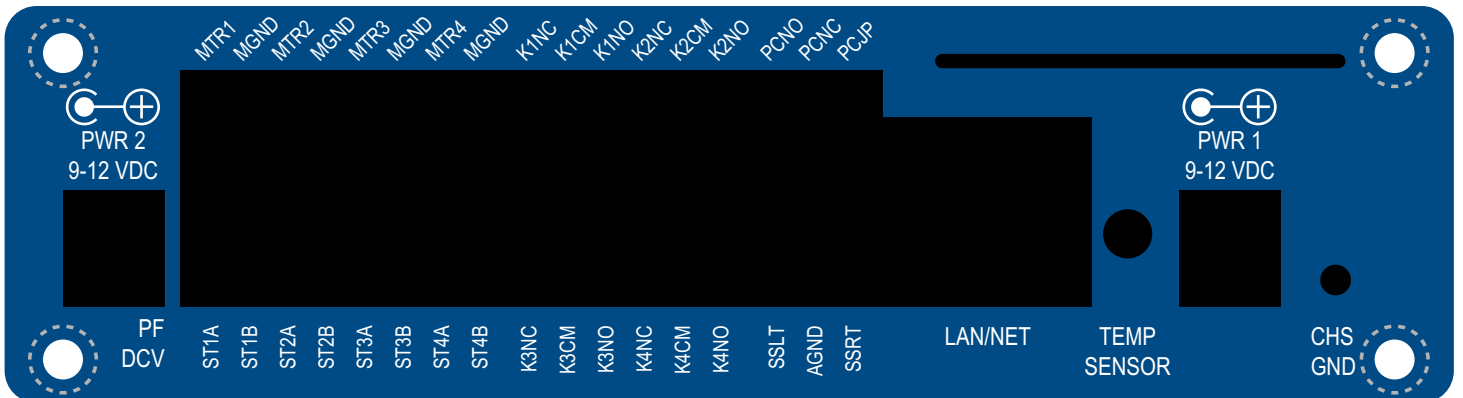
*Visit our web site for product updates and additional information.*



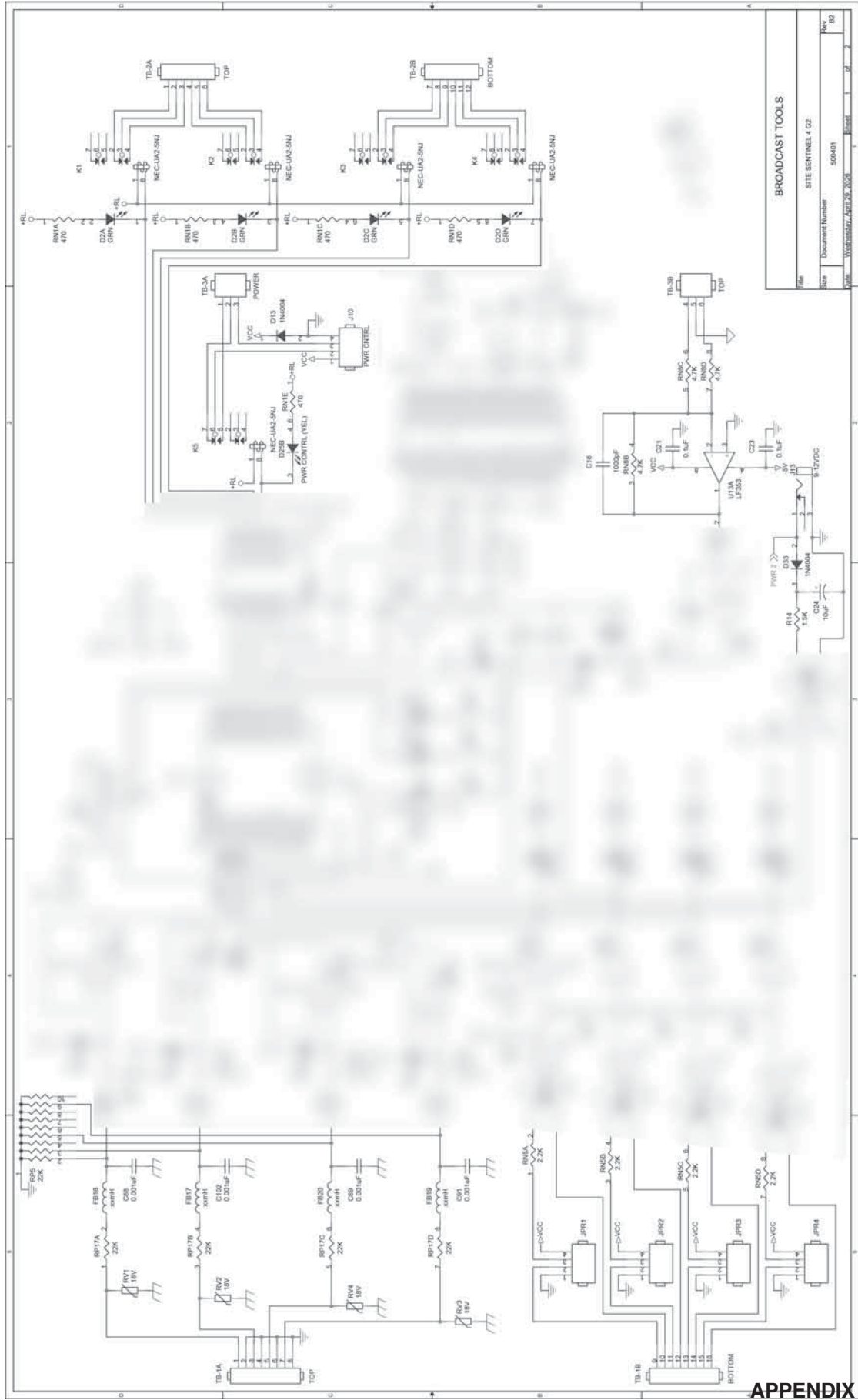
CONFORMITY

### Component Layout





### Fractional Schematic



File	SITE SENTINEL 4 G2
Size	Document Number 500401
Rev	R0
Date	Wednesday, April 26, 2023
Sheet	01 of 2

APPENDIX

**Fractional Schematic**

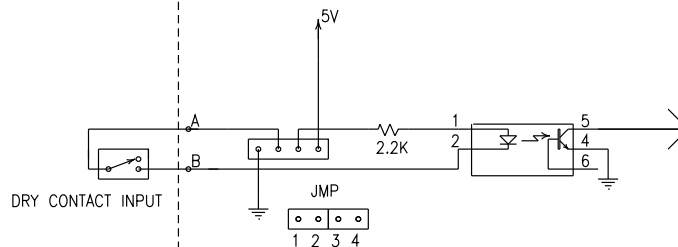


APPENDIX

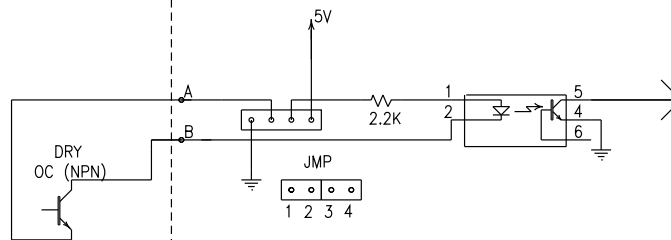
BROADCAST TOOLS	
Title	SITE SENTINEL 4 G2
Size	Document Number 500401
Date	Wednesday, April 28, 2026
Sheet	2 of 2

# Typical Sentinel® Product I/O

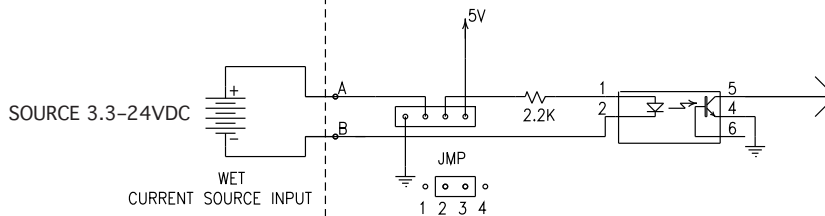
## STATUS INPUT "DRY"



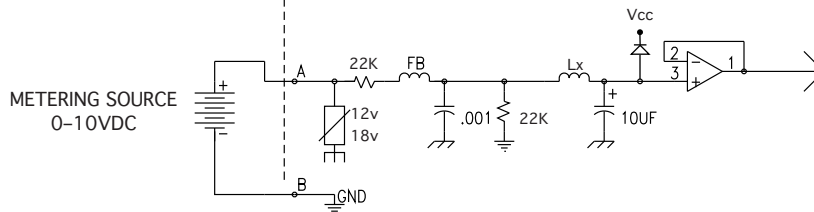
## STATUS INPUT "DRY"



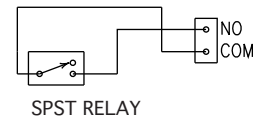
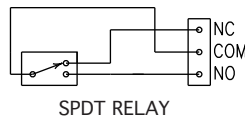
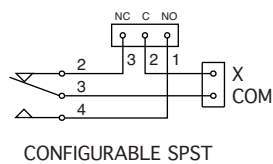
## STATUS INPUT "WET"



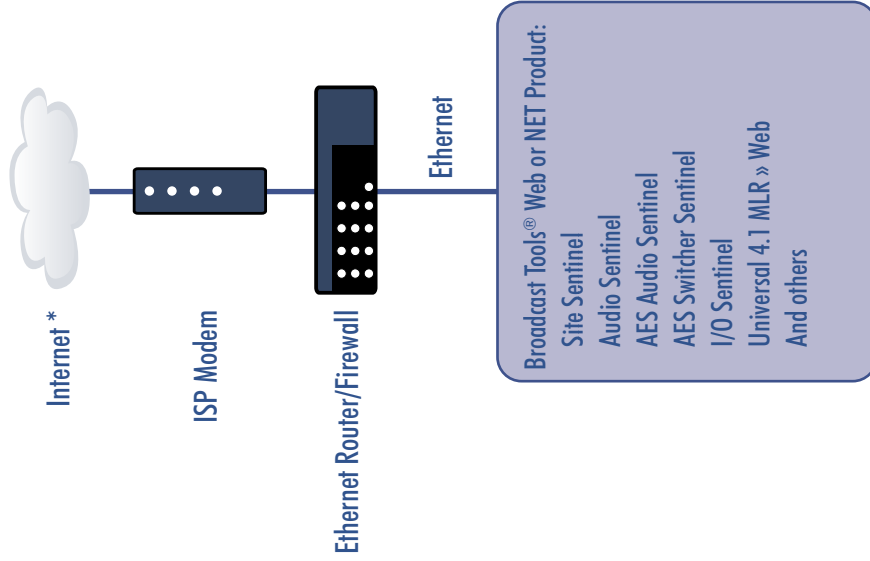
## ANALOG INPUT



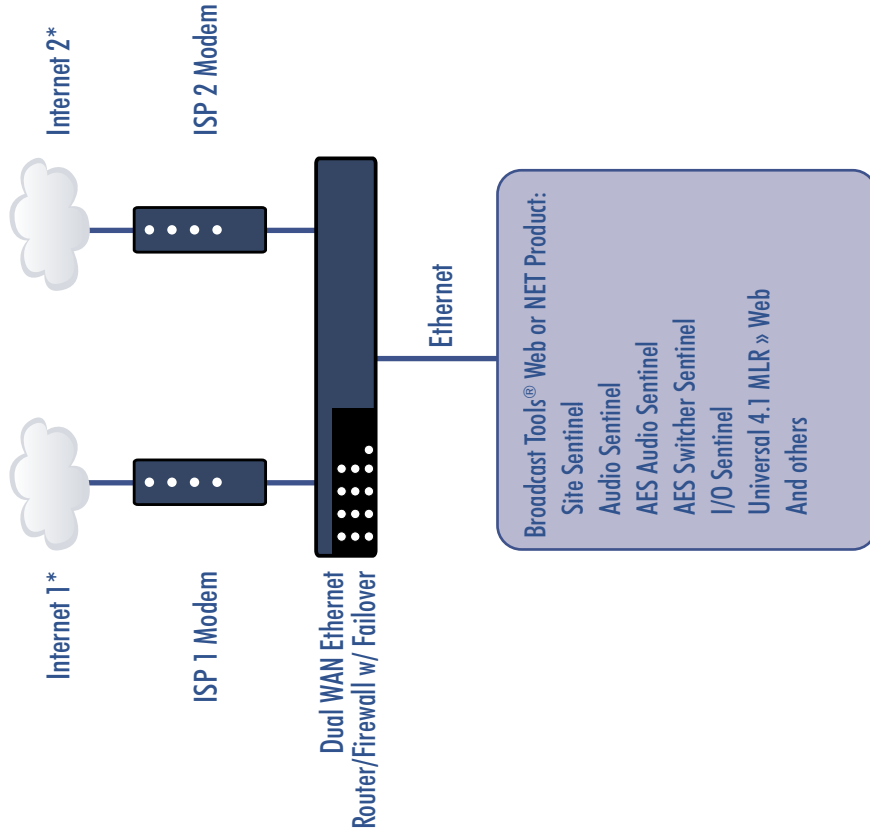
## RELAY OUTPUTS



## Internet Connectivity



\*StarLink recommended



\*StarLink recommended