

BROADCAST[®]
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PROBLEM SOLVED

Installation and Operation Manual



Temperature Sentinel 4 G2 **Web-enabled four channel temperature monitor with I/O**

Firmware Version 2.05 or greater

Manual Revised: 6/3/2026

If you need a firmware upgrade, contact Broadcast Tools[®]

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ALL SPECIFICATIONS AND FEATURES FOR THIS PRODUCT ARE SUBJECT TO
CHANGE WITHOUT NOTICE

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

Due to the dynamic nature of product design, the information contained in this document is subject to change without notice. Broadcast Tools, Inc., assumes no responsibility for errors and/or omissions contained in this document. Revisions of this information or new editions may be issued to incorporate such changes.

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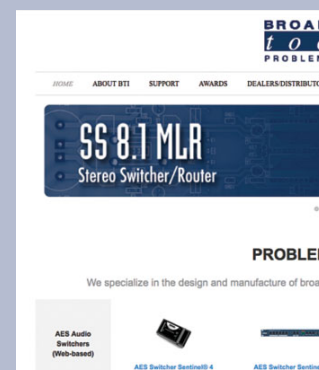
Visit www.broadcasttools.com for important product update information.

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INTRODUCTION

Thank you for your purchase of a Broadcast Tools® Temperature Sentinel 4 G2 web enabled four-port temperature module with I/O (referred to as the Temperature 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® Temperature Sentinel 4 G2.

SAFETY INFORMATION

CAUTION! Only qualified technical personnel should install the Temperature 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 or damage to the Temperature Sentinel 4 G2 or other equipment. Please ensure that proper safety precautions have been taken 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 Temperature Sentinel 4 G2.

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

E-mail: 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.



CAUTION!

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.

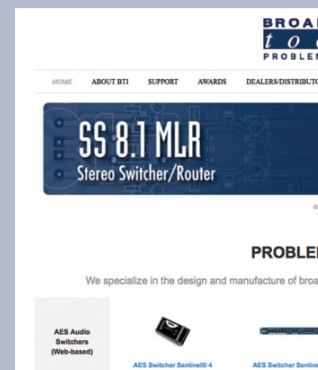


NOTE:

This manual should be read thoroughly before installation and operation.

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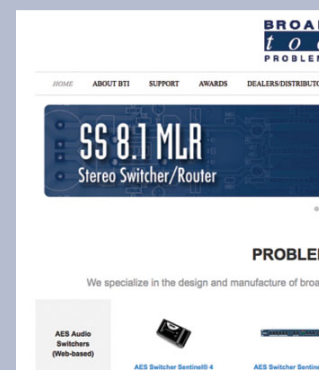
INTRODUCTION

Product Overview

The Broadcast Tools® Temperature Sentinel 4 G2 is an industrial grade Ethernet data acquisition product for monitoring temperature within the range of -67°F to +257°F (-55°C to +125°C) and is equipped with one SPDT electro-mechanical relay and the ability to communicate with up to four digital temperature sensors and one optically isolated status/digital input. It 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 four recipients when alarms are detected. The user may also enable a sound effect to play when an alarm is generated. Logging of status and temperatures, along with the site ID text may be emailed from once an hour to once a day. The electro-mechanical relay can be controlled through the web server interface as well as set up to respond to alarm conditions based on the temperature sensors and/or input condition. The Temperature Sentinel 4 G2 is very easy to set up using a web browser. It has a simple “Monitor/Control Page”, which displays the temperature readings of the four digital temperature sensors that are connected to the unit, as well as the current state of the SPDT relay and optically isolated status/digital input.

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Inspection

Please examine your Temperature Sentinel 4 G2 carefully for any damage that may have been sustained during shipping. If any damage is present, please notify the shipper immediately and retain the packaging for inspection by the shipper. The package contains the Temperature Sentinel 4 G2, one temperature probe, a BLUE straight-through CAT 5 cable, a GRAY crossover CAT 5 cable, and a 9 VDC universal desktop power supply with IEC AC inlet. Manuals can be downloaded from our web site.

Installation

CAUTION! Installation of the Temperature Sentinel 4 G2 in high RF environments should be performed with care. The station ground should be connected to the designated chassis ground terminal or chassis ground screw using a 20 to 24-gauge wire.

Surge Protection

The Temperature 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/or other high voltage surges may damage your Temperature Sentinel 4 G2 and connected equipment if it is not properly protected. For lightning protection devices, check out www.polyphaser.com and www.itwl-inx.com.

UPS Standby Power System

We recommend that you connect your Temperature Sentinel 4 G2 to a UPS standby power system. A UPS, like the BE600M1 from APC helps to minimize the risk to the Temperature Sentinel 4 G2 and provides power during a power outage.

“NET” RJ45 network connector

Connect one end of the supplied CAT5 (straight or crossover) cable to the desired ETHERNET (WAN/LAN) or PC port.

POWER, 9 VDC connector

Connect the 2.1mm barrel type center positive power connector into the unit and the 9 VDC power supply with IEC inlet into a 100-240 Vac 50-60 Hz power source. Never use any type of power supply other than the specified/supplied power supply.

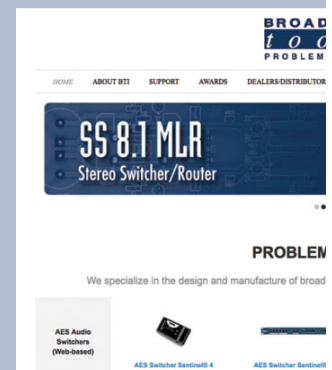
CAUTION! Only use the power supply provided with this product.

Front Panel LED Indicators

- “Power/HB” LED: Flashes, indicating proper operation. (Green)
- “Status” LED: Lit when the status/digital input is activated. (Yellow)
- “Alarm” LED: Lit when an alarm is active. (Red)
- “K1” Relay LED: Lit the relay output K1 is active. (Red)

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Installation

Temperature Sensors

The Temperature Sentinel 4 G2 comes with (1) digital temperature sensor cable (TempSensor) that features a 3.5mm TRS plug and a 25-foot cable length. The sensor uses the 1-wire digital serial protocol. The Temperature Sentinel 4 G2 supports three additional 1-wire temperature sensors for a total of four channels of temperature monitoring via 3.5mm TRS jacks or 3-position pluggable screw terminal block connections. All sensors are powered from the +VO output which is configured to power the sensor with +5 VDC but +VO can be configured to output +3.3VDC on a per input basis via internal jumpers.

3.5mm TRS “TempSensor” pinout:

Tip = +VO, Ring = DATAx, Sleeve = Ground (GND)

Temp Sensor Input 1 (TB1 Top)

Pin 1 = GND	Pin 2 = DATA1	Pin 3 = +VO
Pin 1 = GND	Pin 2 = DATA2	Pin 3 = +VO

Temp Sensor Input 2 (TB1 Bottom)

Temp Sensor Input 3 (TB2 Top)

Pin 1 = GND	Pin 2 = DATA3	Pin 3 = +VO
Pin 1 = GND	Pin 2 = DATA4	Pin 3 = +VO

Temp Sensor Input 4 (TB2 Bottom)

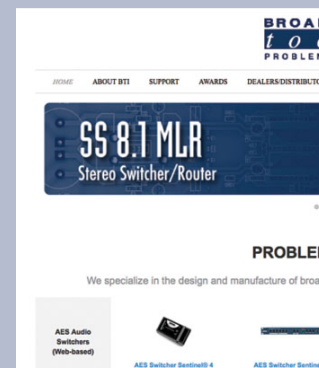
Temperature Sensor Installation

Insert the temperature sensor’s (25 foot cable) mini (3.5mm TRS) plug into any one of the jacks labeled “TEMP SENSORS x” (where x is the probe input number 1-4).

ⁿ **NOTE:** Please limit the total length of cable to 50 feet. Contact the factory for the proper extension cable. The temperature sensor should only be installed or removed with the power supply disconnected from the product.

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INSTALLATION

Opto-Isolated Status Input Connections

The optically isolated status/logic input has a terminal labelled “STB” and a terminal labelled “STB”. It 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.

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 Temperature Sentinel 4 G2 in “wet” configuration the completed equation for the external resistor value would be:

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

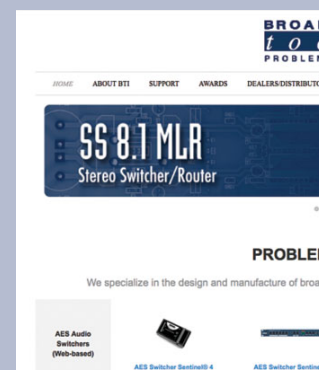
To calculate the power dissipated by the external resistor, the equation would be:

$P = I \times I \times R$, 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.

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INSTALLATION

Relay Output Connections

Equipment to be controlled by the relay output K1 should be connected to the terminals labeled K1NC (normally closed), K1CM (common) and/or K1NO (normally open).

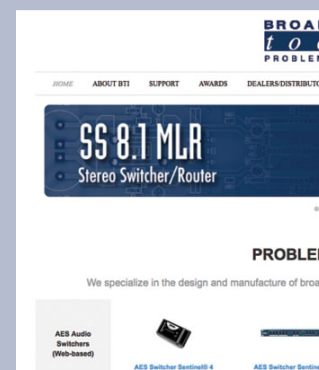
Opto-Isolated Status Input (TB3 Top)

Pin 1 = STA	Pin 2 = STB	Pin 3 = GND
Pin 1 = K1NO	Pin 2 = K1CM	Pin 3 = K1NC

K1 Relay Output (TB3 Bottom)

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Ethernet “Quick Start” Guide

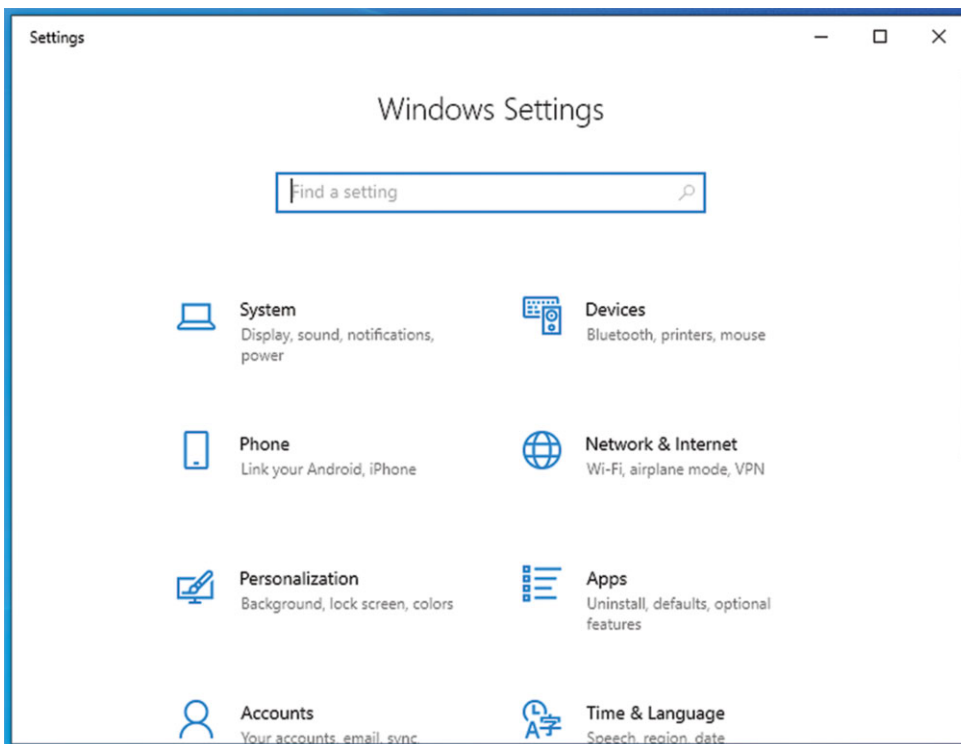
CAUTION! If you are not familiar with Ethernet-enabled equipment, it may be useful to contact your IT department, network administrator or network consultant for assistance. Assigning an IP address already in use by another device may cause problems with your network!

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.

NOTE: We recommend the use of Chrome, Firefox, or Safari for as your browser. Microsoft Edge and Internet Explorer are NOT supported.

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* 10/11 operating system but will also work with Windows* 7. 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.



*Windows is a registered trademark of Microsoft Corporation.

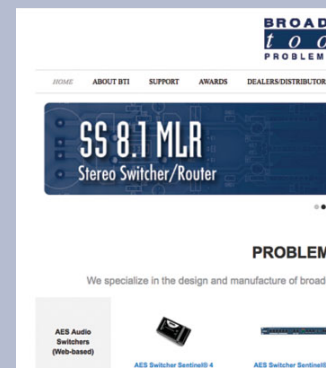


CAUTION!

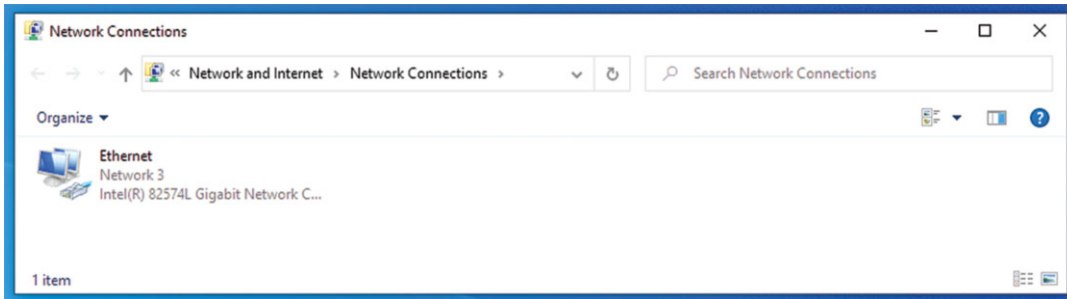
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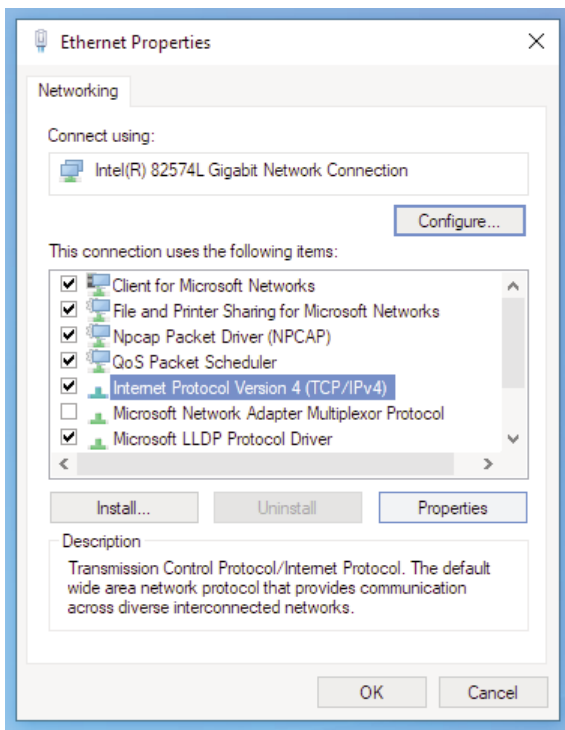
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Step 2: Click on the sidebar labelled Change adapter settings. The Network Connections windows will pop up, as shown below.

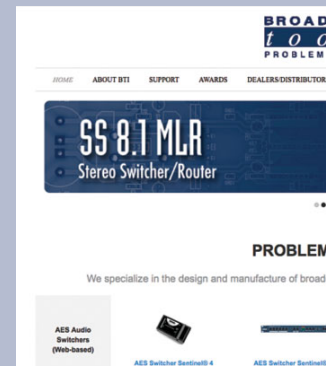


Step 3: Right click on the icon labeled Local Area Connection or Ethernet. A menu will appear. Select the option at the bottom of the menu labeled Properties. The Ethernet Properties window will appear.

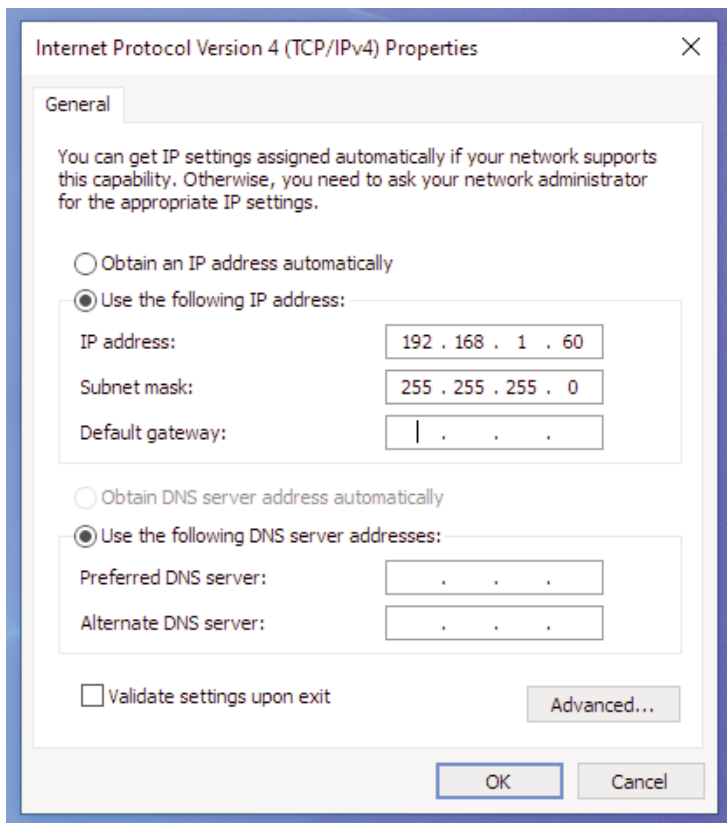


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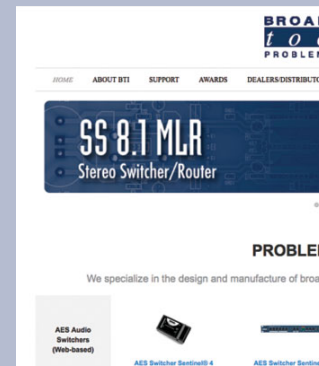
Step 4: On the Local Area Connection Properties page, double click on Internet Protocol (TCP/IPv4) to display properties.



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

NOTE: We recommend the use of Chrome, Firefox, or Safari for as your browser. Microsoft Edge and Internet Explorer are NOT supported.

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.

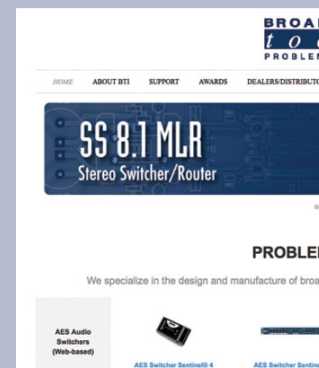
Factory "login" defaults: username: admin (lower case)
 password: 1234

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.

WEBSITE:

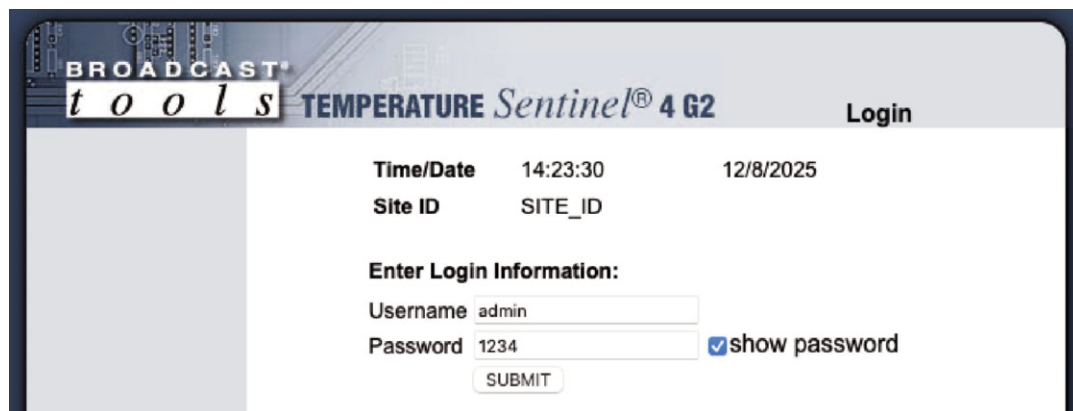
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“Login” Web Page

The Login screen displays the Username and Password entry points as well as the date, time, and site ID.

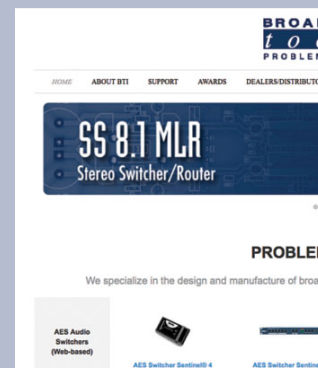
You may view the password by checking the “Show Password” box.



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.

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“Monitor/Control” Web Page

The Monitor/Control page allows monitoring (along with their digital ID) of up to four temperature sensors (one is supplied), as is the state of the single status/digital input via the status indicator.

Sensors	Value	ID
Temp Probe 1	69 °F	09260F
Temp Probe 2	20 °C	C04810
Temp Probe 3	68 °F	2C0B10
Temp Probe 4	No Probe	

Relay	Status	State	Duration
Relay		Pulse	1000

Status Input	Status
Status Input	

The single relay may be configured for one of four states. OFF, ON, Pulse with selectable length of 100 to 2000 milliseconds and reboot with selectable duration of 1 to 30 minutes.

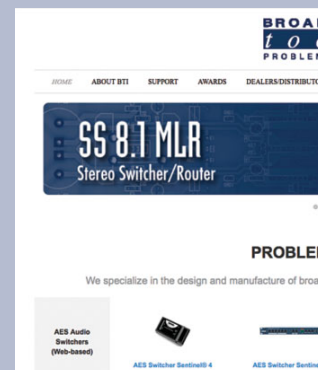
When the desired relay state and duration is completed, the “SUBMIT” button MUST be pressed to activate the function. The relay state is displayed under the relay status LED.

The user defined Site ID, Time and Date are also displayed.

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

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“User Setup” Web Page

Username	Password	Show Password	--- Access Level ---		
			Admin	Monitor Control	Monitor Only
admin	****	☐	☒	☐	☐
		☐	☒	☐	☐
		☐	☒	☐	☐
		☐	☒	☐	☐
		☐	☒	☐	☐
		☐	☒	☐	☐
		☐	☒	☐	☐
		☐	☒	☐	☐

Save Settings

This page can only be configured by users with the “admin” access level.

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

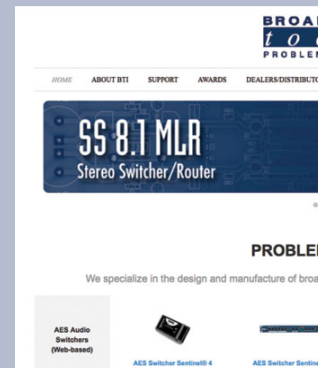
1. “Admin” allows complete product configuration access.
2. “Monitor/Control” allows the following access:
About, Monitor/Control, Show log, Help, and Logout.
3. “Monitor Only” allows the following access:
About, Monitor only, Help, and Logout.

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

The Site ID is used to display up to 29 numbers and/or characters label and is configured on the Email & Network Setup page.

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“Temp Setup” Web Page

Sensor Label: Used to identify each of the four temperature sensors.

Sensor High: This option enables the HIGH temp monitoring. This must be checked to enable email alarms. The box labeled 1,2,3,4 allows the user to enable up to four different email addresses.

Sensor Low: This option enables the LOW temp monitoring. This must be checked to enable email alarms. The box labeled 1,2,3,4 allows the user to enable up to four different email addresses.

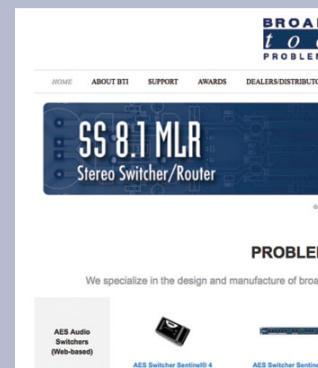
NOTE: By enabling the HIGH and/or LOW temp monitoring and NOT enabling an email box, the device will log the events, but not send an email. If the device is exiting a LOW alarm condition, then the email addresses used will be those notified when the LOW alarm condition was entered.

Exit: The EXIT checkbox allows the user to specify whether an email is sent when the system exits an alarm condition.

Delay: The delay is in seconds. This option specifies the wait time from when a temperature is out of range before an alarm is activated.

WEBSITE:

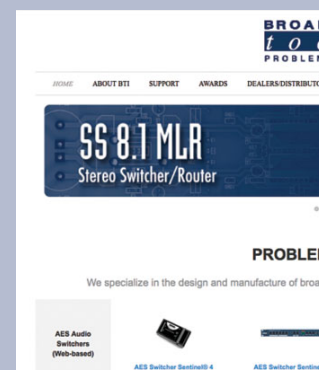
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- Low:** This option specifies the LOW temperature alarm set point.
- High:** This option specifies the HIGH temperature alarm set point.
- Hyst:** Hysteresis (deadband), This option specifies the hysteresis used when evaluating alarm conditions. Hysteresis prevents alarms or relays from toggling excessively when measured temperature is at the set point. This is due to normal fluxuating. For example, if the “Hyst” 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 90 degrees ($90 - 1$). This reduces problems with small fluctuations in temperature readings triggering multiple alarms. The hysteresis is also used during low alarm conditions. If, for example, a low alarm is to occur at 43 degrees and the “Hyst” is set to 1 degree, then once the low alarm is triggered, it won't go off until the temperature returns to higher than 44 degrees ($43 + 1$).
- Type:** This option specifies what scale will be displayed, Fahrenheit or Centigrade.
- Relay:** This option specifies how the relay will react when the temperature goes into a high, low or both alarm condition.
- Status Label:** Used to identify the status/digital input.
- Status ON:** This option enables the status/digital input. The box must be checked to enable email alarms. The box labeled 1,2,3,4 allows the user to enable up to four different email addresses.
- Status OFF:** This option enables the status/digital input when NOT activated. The box must be checked to enable email alarms. The box labeled 1,2,3,4 allows the user to enable up to four different email addresses.
- Delay:** The delay is in seconds. This option specifies the wait time from when a status/digital input changes state before an alarm is activated.
- Relay Label:** Used to identify the relay.
- Relay ON:** This box must be checked to enable email alarms. The box labeled 1,2,3,4 allows the user to enable up to four different email addresses.
- Relay OFF:** This box must be checked to enable email alarms. The box labeled 1,2,3,4 allows the user to enable up to four different email addresses.

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OPERATION

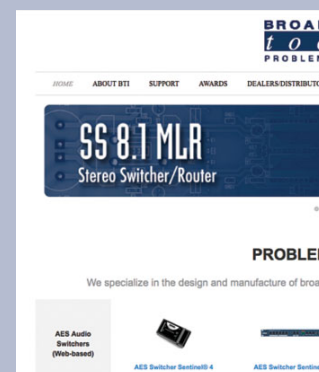
NOTE: By enabling the ON and/or OFF temp monitoring and NOT enabling an email box, the device will log the events, but not send an email. If the device is exiting an OFF alarm condition, then the email addresses used will be those notified when the OFF alarm condition was entered.

Page Refresh Time: This option specifies how often the web page is automatically refreshed in seconds.

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

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“Email/Network Setup” Web Page

BROADCAST
t o o l s

TEMPERATURE Sentinel® 4 G2

Email / Network Setup

NAVIGATION
About
Monitor/Control
User Setup
Temp Setup
Email/Network Setup
Show Alarms
Help
Logout

Device Address192 . 168 . 111 . 55

Device Netmask255 . 255 . 255 . 0

Gateway Address192 . 168 . 111 . 1

DNS Server Address192 . 168 . 111 . 1

HTTP Port80

SMTP Server Address

SMTP Port25

SMTP Return Address

SMTP Host ID

SMTP Authentication☐

SMTP Username

SMTP Password
☐ show password

Logging Email Address

Logging Email Snapshot Interval (Hours)0

Logging Email Update Interval (Hours)0

Email Alarms☒ Immediately
☐ Daily

Daily Alarm Email Time (Hour)0

Recipient Addresses1
2
3
4
5
6
7
8

SNMP Manager IP Address1192 . 168 . 1 . 170
20 . 0 . 0 . 0

SNMP Manager Trap Port162

SNMP Read Communitypublic

SNMP Write Communityprivate

SNMP Enable Traps☐

NTP Server Addresspool.ntp.org

NTP Port123

NTP Update Interval (Minutes)30

NTP Enabled☒

Site IDSITE_ID

Monitor Refresh Time1Seconds

MTU Size1400

Time Zone Offset from UTC-8.0 hours

Enable Event Logging☐ Login
☐ Email
☐ Reboot
☐ Alarms Cleared

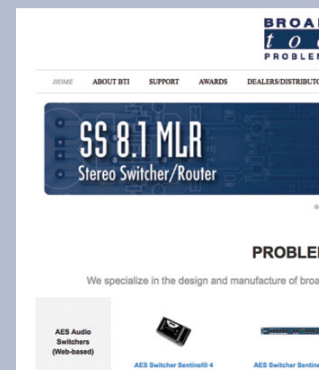
Save SettingsReboot Device

Send Test E-mailReload Defaults

Clear Daily LogsSend Daily Logs

WEBSITE:

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OPERATION

Restoring Network Factory Defaults

“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.comcast.net. In order to resolve the URI, a working DNS server must be present.

SMTP Port: Normally Port 25 or 587. Default: 25

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

NOTE: The user must enter the following items before an email can be successfully sent: SMTP Server Address, SMTP Port, SMTP Return Address, SMTP Host ID, SMTP username and SMTP password must be supplied if authentication is turned on and Recipient Address 1. The test email is sent to email recipient address 1.

The user must 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 unit’s IP address or leave blank.

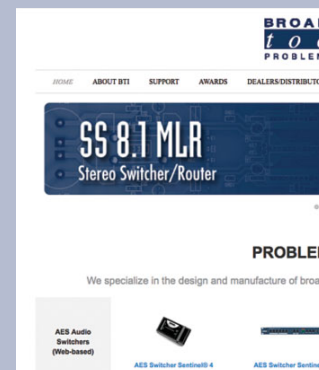
SMTP Authentication: When checked, Base64 SMTP authentication is used. SSL/TLS is not supported.

SMTP Username: Enter user name here.

SMTP Password: Enter password here.

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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.

Logging Email Snapshot Int.: The period in hours that a snapshot is taken of the system. The logging email is not sent on this interval.

Logging Email Update Int.: The period in hours that the logging 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. The number of queued alarms is displayed on the Monitor/Control page.

Daily Alarm Email Time: The time 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 address correlate to the 8 email addresses selectable on each I/O Device.

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

SNMP Manager IP Address: This is the IP address of the SNMP manager. The system only accepts SNMP requests from this IP address, and will send traps to this IP address only.

SNMP Manager Trap Port: This is the port number that SNMP trap messages will be sent. Default port 162.

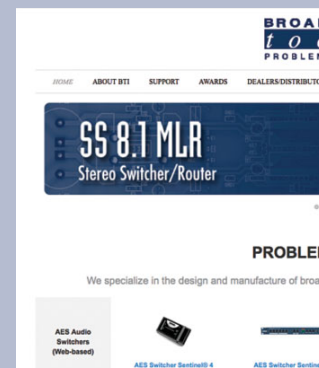
SNMP Read Community: This is the community name for Read-Only access.

SNMP Write Community: This is the community name for Read-Write access.

SNMP Enable Traps: When checked, trap messages will be sent. When unchecked, no trap messages will be sent.

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NOTE: A cold-start trap will be sent when the unit boots up if the SNMP Enable Traps is checked, otherwise trap messages are sent when a device enters or exits an alarm condition, depending on whether or not alarms are enabled.

“Email/Network Setup” Web Page – NTP Settings

NTP (Time) Server Address: Enter the NTP address here. Default: pool.ntp.org
NTP Port: Normally 123. Default: 123
NTP Update Interval (Min): Interval between timing updates. Default: 30
NTP Enabled: Must be enabled to sync. Default: Enabled

“Email/Network Setup” Web Page – Other Settings

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

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

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.

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 user-name and date/time will be logged.

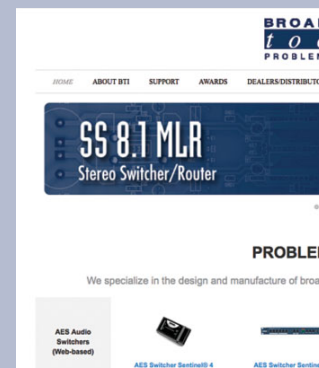
Email: Whenever an email is sent, the type of email and date/time will be logged.

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.

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“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.

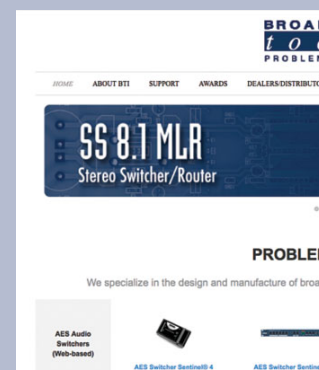
Reload Defaults: When you press the “Reload Defaults” button, the device resets, you must navigate your web browser to the new IP address (if the HTTP port was changed from port 80, be sure to add the new port number after the IP: xxx.xxx.xxx.xxx:port #).

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 post after the logs are cleared.

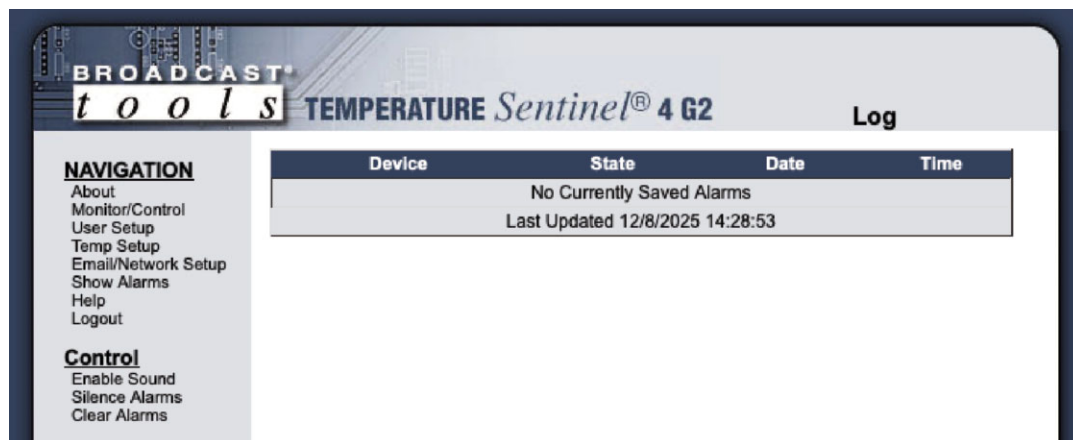
Send Daily Logs: When you press the “Send Daily Logs” button, the system will send the daily logs email and clear the log queue.

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“Show Alarms” Web Page



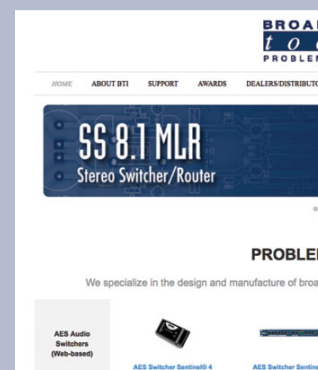
This page displays current alarms.

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

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

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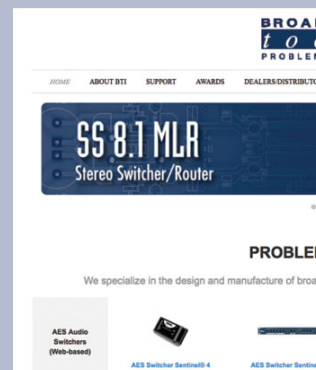
“About” Web Page



The “About” Web Page displays the product name, firmware version numbers, and Broadcast Tools® Web site link.

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Specifications

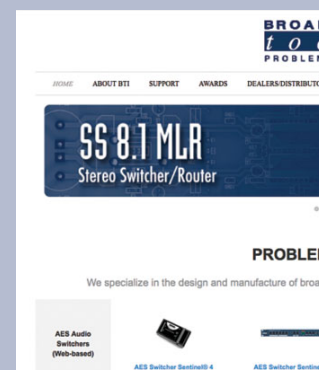
Ethernet Interface:	RJ-45, 10base-T or 100base-TX, auto sensing with link & activity led indicators - Full/half duplex.
Temperature Probes:	Four total with one probe (sensor) supplied (25-foot cable and 3.5mm T/R/S plug). 1-wire digital format.
Temperature Range:	-67°F to +257°F (-55°C to +125°C)
Status/Digital Input:	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 LED indicator.
Relay Output:	SPDT dry contacts, 30 VDC @ 1 Amp.

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

Temp. Probe & I/O Connectors:	Four 3.5mm, 1/8" T/R/S jacks. Temperature sensors, status and relay, removable 3-p euro-block screw terminals
EMI / FCC Compliance:	See the Declaration of Conformity page. 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.
Power Supply:	9 VDC @ 1 amp power supply (CE/UL/ETL). 2.1mm ID x 5.5mm OD coaxial connector, center positive. Surge protected, universal (100 - 240 vac / 50/60 Hz) with IEC input, domestic AC cord included.
Operating Environment:	32°F/0°C-122°F/50°C; 0%-95% non-condensing relative humidity; 10,000ft/3048m.
Size:	5.5" x 5.2" x 1.6" (L x W x H) inches
Weight:	1.0 lb.
Options:	* TempSensor, temperature probe supplied with 25-foot cable and 3.5mm T/R/S plug. * RA-1, 1 RU. Accommodates up to 3 units, filler panels supplied. Note: Velcro is supplied to secure the product to the RA-1 shelf.

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SPECIFICATIONS

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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.

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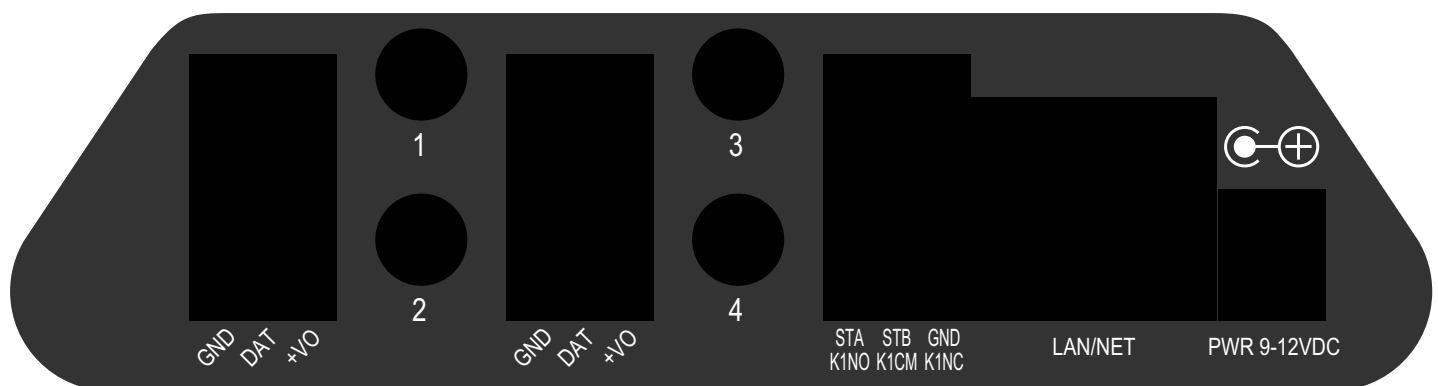
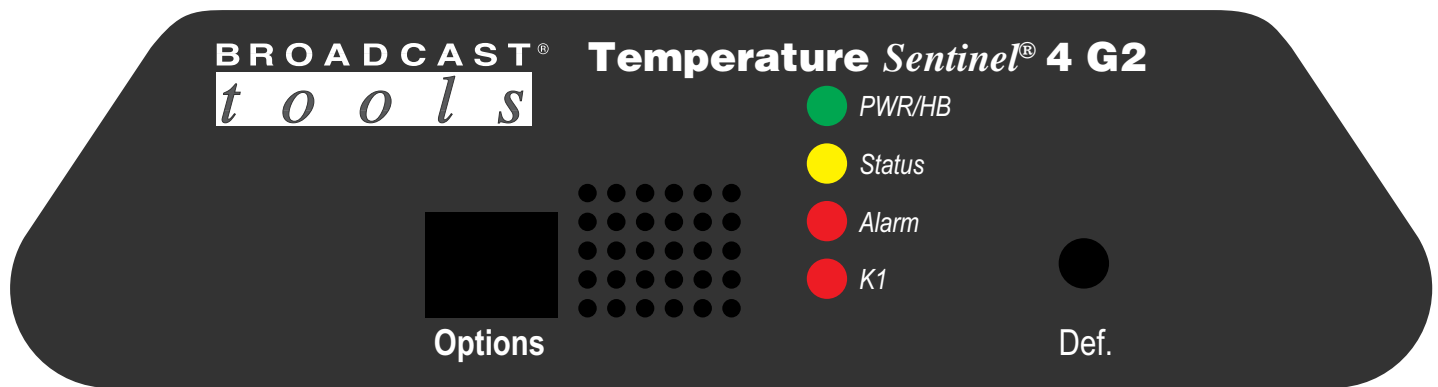
NO LIABILITY FOR CONSEQUENTIAL DAMAGES

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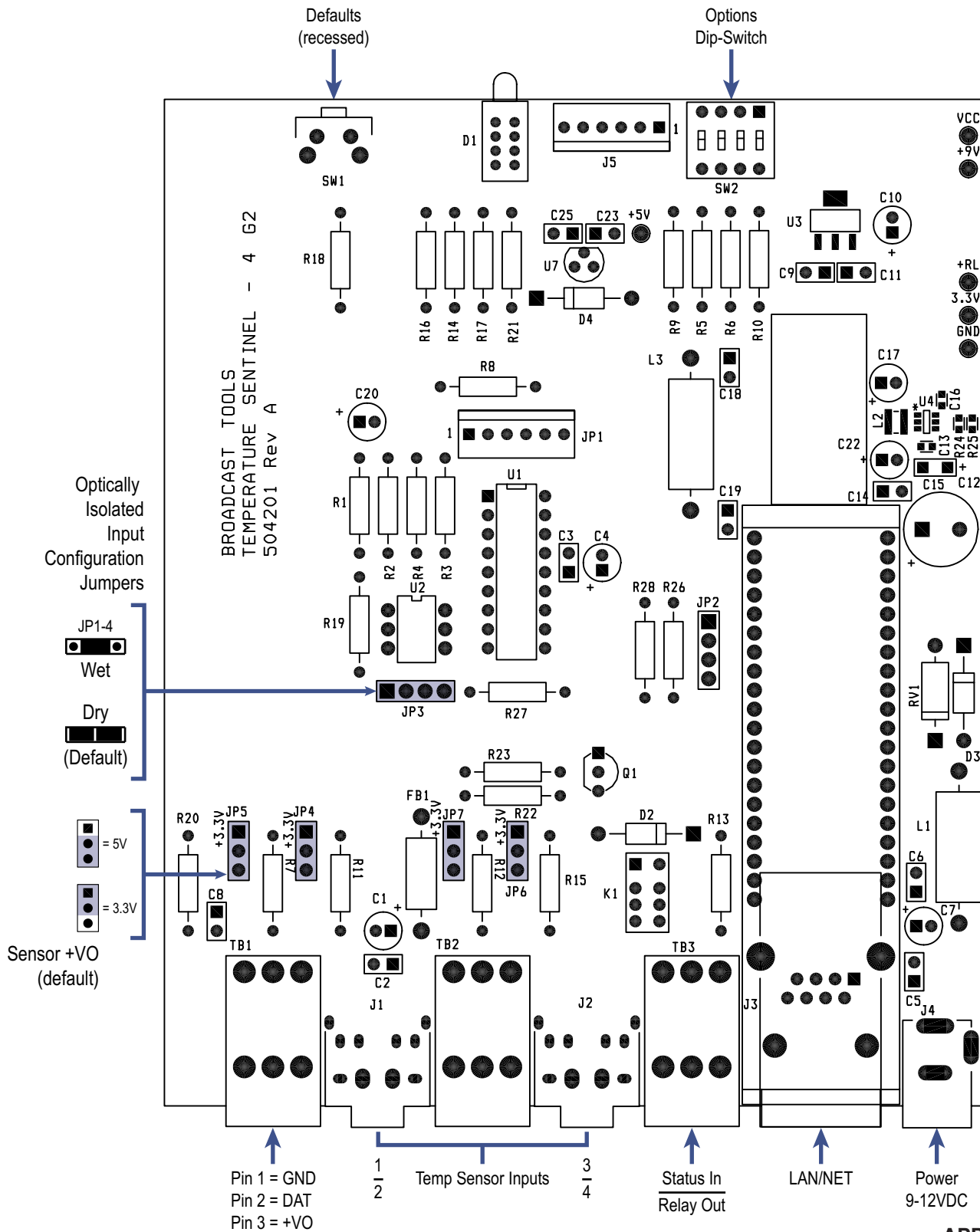
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Component Layout



Fractional Schematic

