Wattstopper®

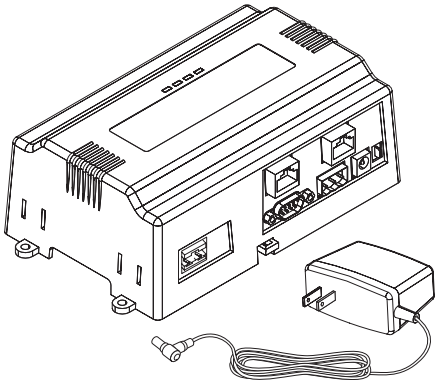
Automation Series Scheduling Appliance

No: 25274 – 06/17 rev. 1

Installation Instructions • Instructions d'Installation • Instrucciones de Instalación

Catalog Number • Numéro de Catalogue • Número de Catálogo: LIA-WEB

Country of Origin: Made in China • Pays d'origine: Fabriqué en Chine • País de origen: Hecho en China



SPECIFICATIONS

Voltage ..... 15VDC from 120VAC plug-in
..... power supply (included) or auxiliary enclosure
Connection
RJ45 Ethernet port for TCP/IP (LAN)
LonWorks FTT-10 Weidmuller
Embedded Power PC platform ..... @ 524Mhz
QNX real time operating system
Environment ..... Indoor use only
Operating Temperature ..... 32-122°F (0-50°C)
Relative Humidity ..... 5%-90%, non-condensing

DESCRIPTION

Introduction

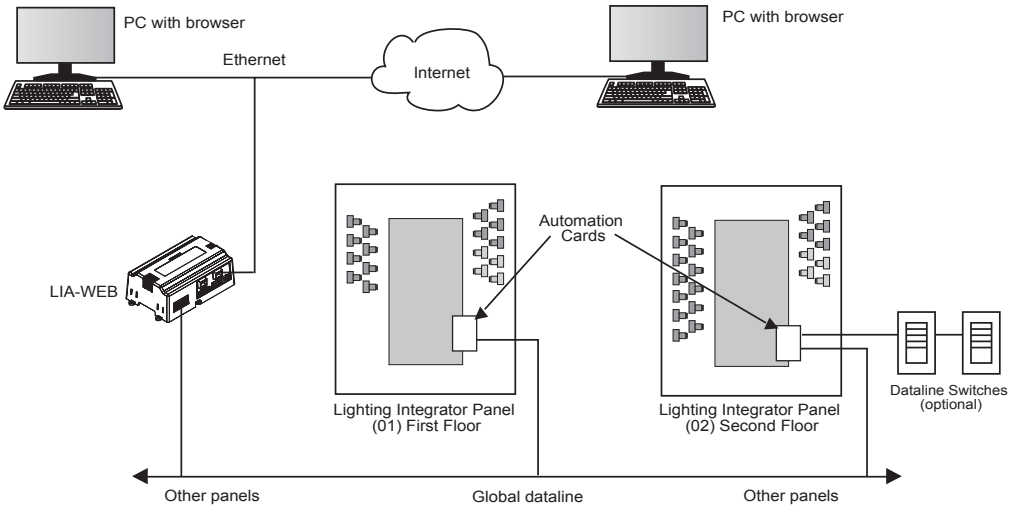
The LIA-WEB scheduling appliance serves as both an automation module and a data communications link for a lighting integrator (LI) panel system equipped with automation cards. Used in place of the network Clock or BMS interface Module, the LIA-WEB provides lighting control automation functions and acts as the primary user interface for configuring all devices connected to the Lighting Integrator network's LON-based global dataline.

Operation

Once connected to the facility enterprise LAN, intranet, or internet, the appliance allows the user to configure and access all lighting control functions from any PC on the LAN using only a standard web browser. No installed software is required for configuring, monitoring, or overriding the lighting integrator panels. Once the LIA-WEB has been properly configured for interoperation with the lighting control panels, all relays and automation channels are automatically exposed as BACnet objects. BACnet IP (Annex J) connectivity is provided through the same TCP/IP Ethernet connection used for normal operation of the lighting control panels. The LIA-WEB then serves the same purposes that would otherwise require HCLK8SS or HBMS8SS modules.

Administration and Scheduling

In addition to supporting the same functionality of the HCLK8SS Clock/Programmer, the appliance enables users to create text user names for all panels, relays, switches, buttons, and channels, as well as override relays and channels in real time. Scheduling capabilities include flexible scheduling using seven day repetitive schedules, 365 day calendar date event-type schedules, or dusk/dawn schedules based on an internal astronomic clock. The appliance supports eight schedules per panel as well as eight global schedules.



LIA-WEB connected to a network

Preparation

Unpack the LIA-WEB and power module and inspect the package contents for damaged or missing components. If damaged, notify the appropriate carrier at once and return any damaged components for immediate repair or replacement.

You should find the following items included in this package:

- An LIA-WEB
- A 120VAC power module
- These Installation Instructions
- Grounding wire, with quick-disconnect 0.187” female connector
- Network terminal block(s); one for the LI Automation dataline, another for the BACnet MS/TP
- End-of-Line 120 Ohm terminating resistor

Precautions

This document uses the following warning and caution conventions:

Cautions

Cautions remind the reader to be careful. They alert readers to situations where there is a chance that they might perform an action that cannot be undone, might get unexpected results, or might lose data. Cautions contain an explanation of why the action is potentially problematic.

Warnings

Warnings alert the reader to proceed with extreme care. They alert readers to situations where there is a chance that they might do something that can result in personal injury or equipment damage. Warnings contain an explanation of why the action is potentially dangerous.

Safety Warnings

The following items are warnings of a general nature relating to the installation and startup of the LIA-WEB. Be sure to heed these warnings to prevent personal injury or equipment damage.

- Disconnect power before installation or servicing to prevent electrical shock or equipment damage.
- Make all connections in accordance with national and local electrical codes.
  Use copper conductors only.
- To reduce the risk of fire or electrical shock, install in a controlled environment relatively free of contaminants.
- This device is only intended for use as a monitoring and control device.
  To prevent data loss or equipment damage, do not use it for any other purpose.

Static Discharge Cautions

Static charges produce voltages high enough to damage electronic components. The microprocessors and associated circuitry within an LIA-WEB are sensitive to static discharge. Follow these precautions when installing, servicing, or operating the system:

- Work in a static-free area.
- Discharge any static electricity you may have accumulated.
  Discharge static electricity by touching a securely grounded object.
- Do not handle the printed circuit board (PCB) without proper protection against static discharge.
  Use a wrist strap when handling PCBs. The wrist strap clamp must be secured to earth ground.

MOUNTING

Mount the LIA-WEB in a location that allows clearance for wiring, servicing, and module removal. Additional mounting information applies, as follows:

- Environmental Requirements
- Physical Mounting

Environmental Requirements

Note the following requirements for the LIA-WEB mounting location:

- This product is intended for indoor use only.
  Do not expose the unit to ambient conditions outside of the range of 0ºC (32º F) to 50ºC (122º F), or to relative humidity outside the range 5% to 95% non-condensing (pollution degree 1).
- If mounting inside an enclosure, that enclosure should be designed to keep the unit within its required operating range.
  This is considering a 20-watt dissipation by the LIA-WEB, plus dissipation from any other devices installed in the same enclosure. This is especially important if the LIA-WEB is mounted inside an enclosure with other heat-producing equipment.
- Do not mount the unit:
  - in an area where excessive moisture, corrosive fumes, or explosive vapors are present.
  - where vibration or shock is likely to occur.
  - in a location subject to electrical noise.
    This includes the proximity of large electrical conductors, electrical machinery, welding equipment, spark igniters, and variable frequency drives.

Physical Mounting

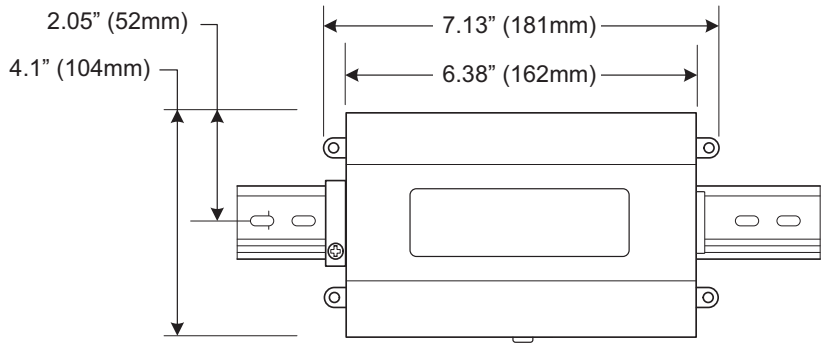
The following information applies to physically mounting the unit.

- You can mount the LIA-WEB in any orientation.
  It it not necessary to remove the cover before mounting.
- Mounting on a 35mm wide DIN rail is recommended.
  The LIA-WEB unit base has a molded DIN rail slot and locking clip.
- If DIN rail mounting is impractical, you can use screws in mounting tabs on the LIA-WEB.
  Tab dimensions are in Fig. 2.
  The LMSM-ENC1 is an optional DIN rail-equipped enclosure. The LMSM-ENC1 provides an integral 120VAC receptacle, conduit connection points, and protection for the LIA-WEB. It is designed for applications where code or the local AHJ requires that low voltage wiring, such as control and communication wiring, be run inside a conduit, or where needed for customer specifications. See the instructions provided with the LMSM-ENC1 for more information.

To mount on third-party DIN rail (when not using the LMSM-ENC1)

The following procedure provides step-by-step DIN rail mounting instructions for the LIA-WEB. It is recommended to leave 2 inches of clearance above and below the LIA-WEB.

1. Securely install the DIN rail using at least two screws, near both ends of the rail.
2. Position the LIA-WEB on the rail, tilting to hook DIN rail tabs over one edge of the DIN rail (see Fig. 1).
3. Use a screwdriver to pry down the plastic locking clip, and push down and in on the LIA-WEB, to force the locking clip to snap over the other edge of the DIN rail.



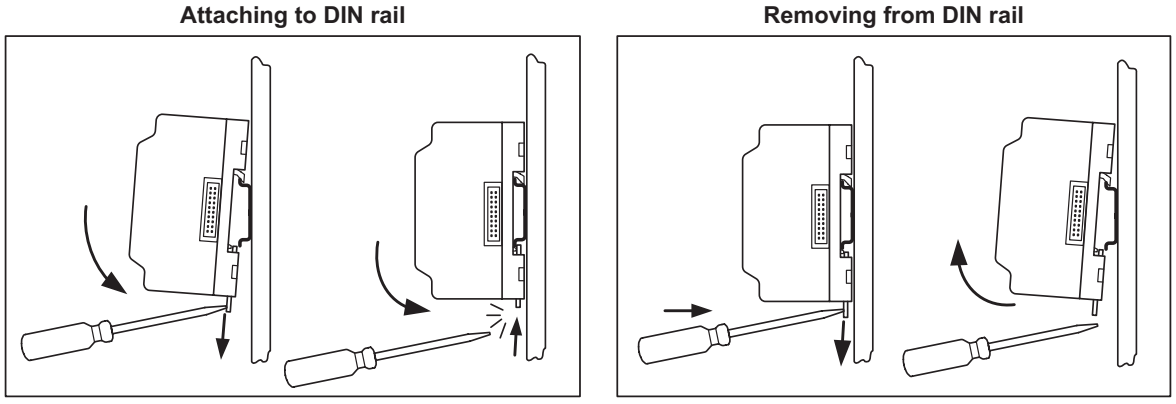


Fig. 1: DIN Rail Mounting

Tab Mounting

Electronic and printed versions of this guide may not show the dimensions to scale. Verify all measurements before drilling.

NOTE: DIN rail mounting is recommended over tab mounting (see Fig. 1).

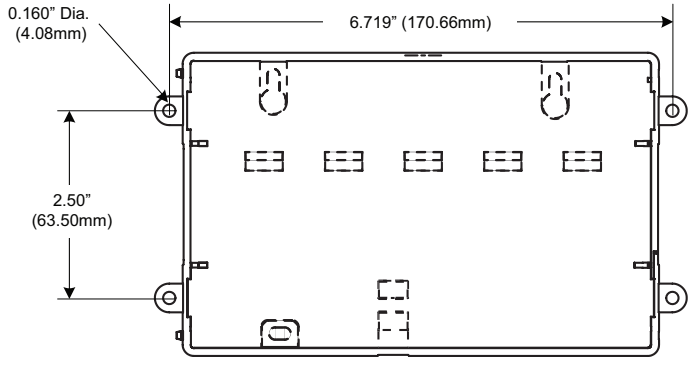


Fig 2: Tab Mounting Dimensions

Removing and Replacing the Cover

The cover snaps onto the base with four plastic tabs (two on each end).

- To remove the cover, press in the four tabs on both ends of the unit, and lift the cover off.
- To replace the cover, orient it so the cutout area for comm ports is correct, then push inward to snap in place.

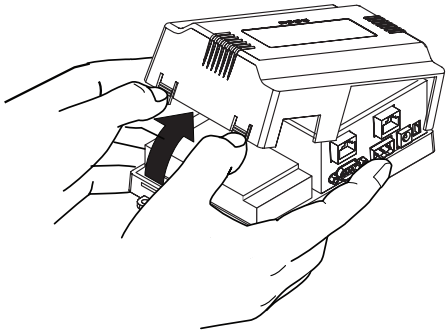


Fig. 3: Removing and Replacing the Cover

BOARD LAYOUT

Fig. 4 shows the location of LEDs, option slots, and other features of the LIA-WEB with the cover removed. For a side view of communications ports and other features, see Fig. 5 & 6.

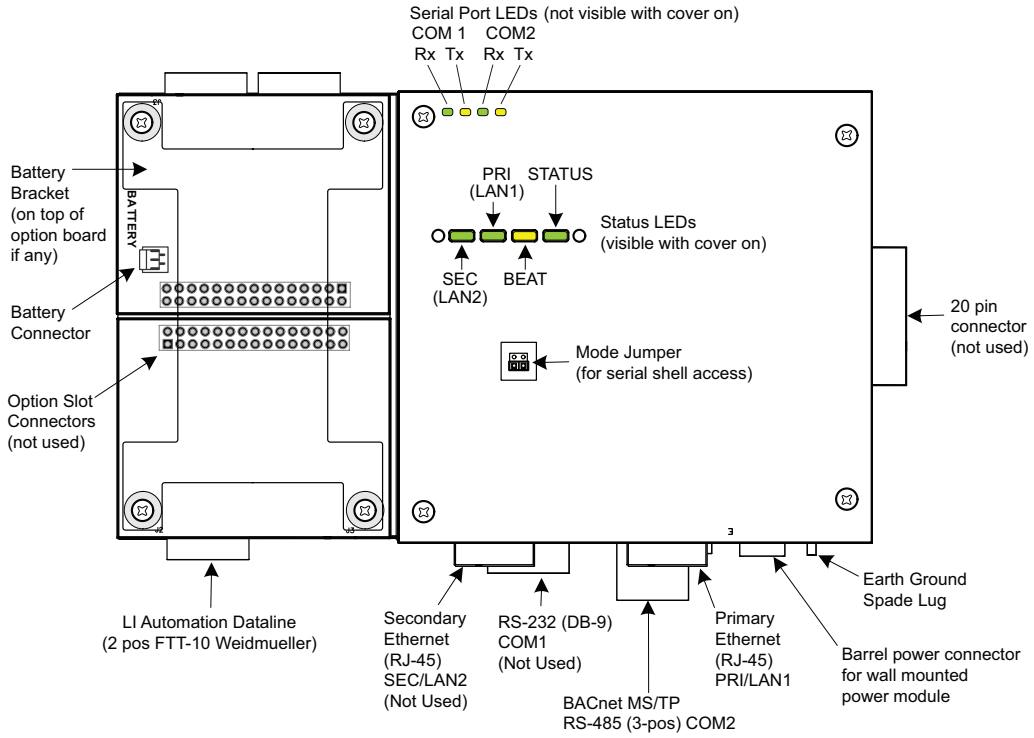


Fig. 4: Board Layout

Wiring Details

Make connections to the LIA-WEB in the following order:

1. Connect supplied earth grounding wires (with spade connector) from the earth ground lug on the LIA-WEB to a nearby earth grounding point.
   See **Grounding** for details.
2. Prepare power wiring, but leave the unit powered off; do not plug in the Barrel power connector from the Power Module until all other mounting and wiring is complete.
   See **Power Wiring** for details.
3. Connect communications cables.
   See Fig. 4, 5, & 6 for ports available on the LIA-WEB.

Grounding

An earth ground spade lug (0.187”) is provided on the base of the LIA-WEB for connection to earth ground. For maximum protection from electrostatic discharge or other forms of EMI, connect the supplied earth grounding wire to this lug and to a nearby earth ground (see Fig. 4 & 6). Keep this wire as short as possible.

Communications Wiring

Before connecting cables, provide strain relief for them to prevent damage to the LIA-WEB. Connect communications wiring to the LIA-WEB using ports on the bottom of the unit (see Fig. 5), which include:

- RJ-45 Ethernet for PC or LAN connection
- LI Automation Dataline

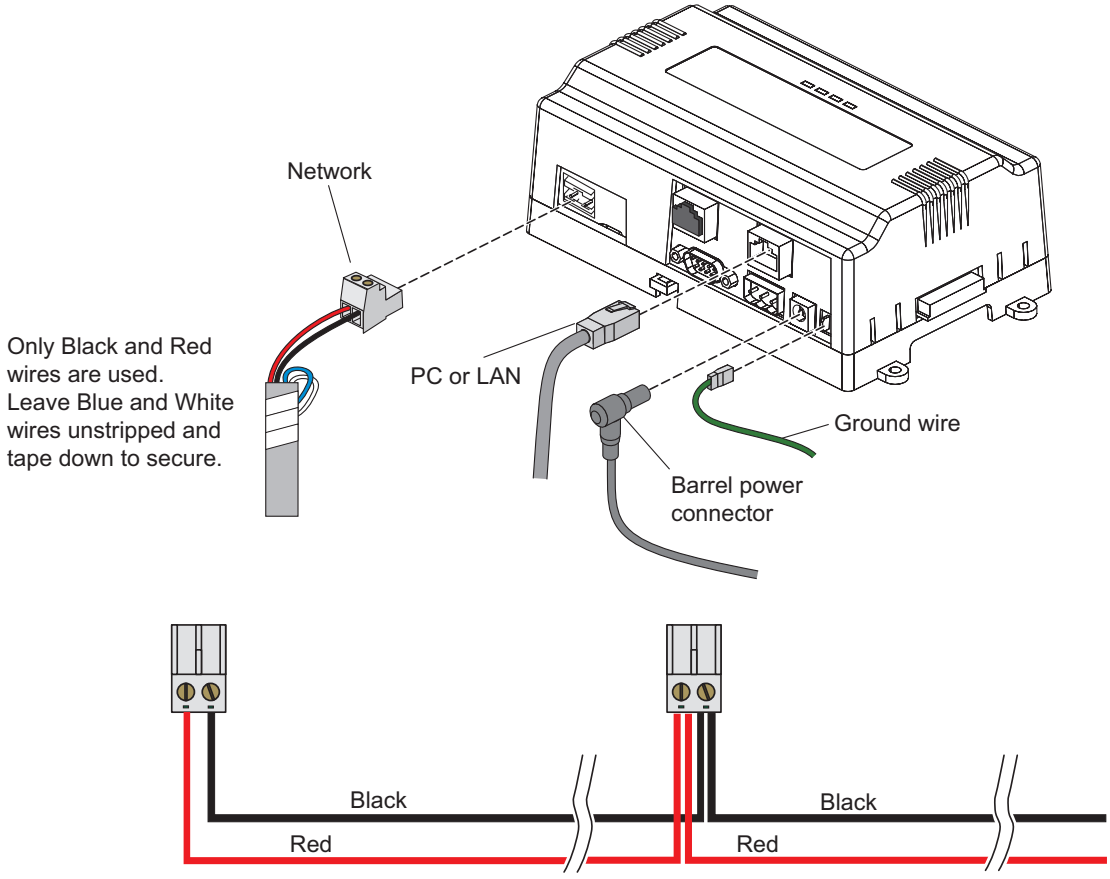
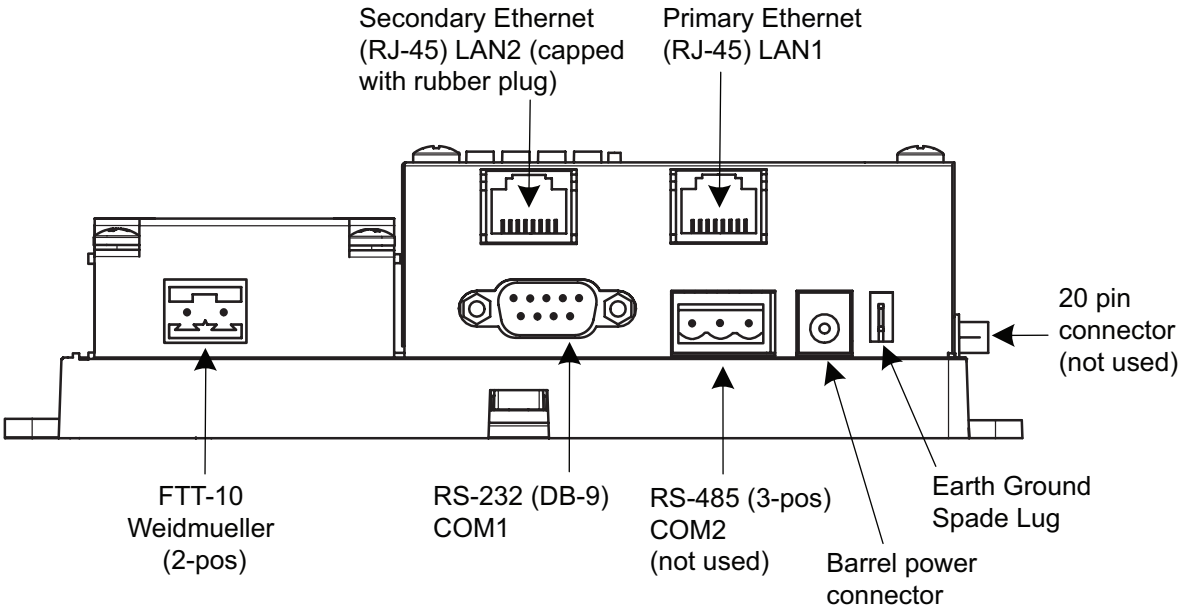


Fig. 5: Wiring the LIA-WEB



Ethernet

Two female 10/100-Mbit Ethernet connections are provided on the LIA-WEB. These are RJ-45 connectors labeled LAN2 and LAN1. Use a standard Ethernet patch cable for connecting to a hub or Ethernet switch. An activity LED for each Ethernet port is visible and they are labeled “SEC” (for LAN2) and “PRI” (for LAN1) on the cover.

- The factory-default IP address for LAN1 on a LIA-WEB is 192.168.1.12x, where the last numeral “x” in the address matches the last digit of the LIA-WEB’s serial number.
- The subnet mask is **255.255.255.0**.
- The factory-default IP address for LAN2 on a LIA-WEB is 192.168.5.12x, where the last numeral “x” in the address matches the last digit of the LIA-WEB’s serial number.

NOTE: Only use LAN1 (primary port), unless you have a specific application for isolating a driver’s network traffic to a separate LAN, using LAN2. Do not use LAN2 as the primary port.

LON Port (LonWorks)

A single, two-pin, male LonWorks FTT-10A Weidmuller connection is provided on the controller. This connection supports twisted pair, unshielded, polarity-insensitive, peer-to- peer communications at 78 Kbps.

Connect the LonWorks wiring to the Global Dataline connector on the Lighting Integrator Automation Card. Only Black and Red wires are used. Leave Blue and White wires unstripped and tape down to secure.

Refer to the LonWorks FTT-10A Free Topology Transceiver User’s Guide (078-0156-01F) for technical guidelines associated with free topology restrictions and the Junction Box and Wiring Guidelines for Twisted Pair LonWorks Networks (005-0023-01) for more detailed information on wiring specifications. These documents are available on Echelon’s web site (www. echelon. com).

Power Wiring

The LIA-WEB must be powered by an approved 15VDC power source. This can be either an external wall mount AC adapter (LMSM-PS included with LIA-WEB, or other source of 15 volts DC).

The LIA-WEB does not have an on/off switch. To apply power, plug in the Barrel power connector to the LIA-WEB (see Fig. 5 & 6 for location).

CAUTION: Do not plug the Barrel connector plug from the LMSM-PS into the LIA-WEB until all other mounting and wiring is completed. See “Power Up and Initial Checkout.”

Power Supply Module (LMSM-PS)

The power module is a self-contained, isolated, switching power supply designed to plug into a standard building 115/120VAC power receptacle. To supply power to the LIA-WEB, you then simply plug the Barrel connector plug from the LMSM-PS into the Barrel power connector on the LIA-WEB board.

Power Up and Initial Checkout

Ensure power wiring to the LIA-WEB is ready—see the **Power Wiring** section. Refer to Fig. 4 for the locations of the LIA-WEB battery connector, status LEDs and Barrel power connector (for LMSM-PS only).

After mounting and wiring, perform the following:

1. Apply power to the LIA-WEB by plugging the power plug into the power connector on the LIA-WEB. Refer to Fig. 5 for location of the power connector.
2. Check the Status LEDs.
   - When power is applied, the green LED labeled **STATUS** lights. This indicates that the system is OK and that power is applied.
   - Once the LIA-WEB boots, the yellow **BEAT** (heartbeat) LED begins blinking, with a typical rate of about 1 Hz. Blinking should begin within 30 seconds after power is applied. Watch the blinking yellow BEAT LED and wait at least one minute before attempting to log on to the LIA-WEB.
   - If after applying power, the STATUS LED goes out, or if the BEAT LED comes on (steady) and stays lit longer than two minutes, contact Wattstopper Technical Support. See also the **Using Status LEDs** section.

Using Status LEDs

The LIA-WEB includes several LEDs that can help you determine the status of the unit. They are located in two places as shown in Fig. 4: the top of the LIA-WEB (visible through the cover), and for serial ports, on the bottom board (visible only with cover removed). From left to right these LEDs include:

- Ethernet Ports (SEC, PRI)
- Heartbeat (BEAT)
- Status (STATUS)

  Refer to Fig. 4 for the exact locations of status LEDs on the LIA-WEB.

Ethernet Ports

Each Ethernet port (“SEC” for LAN2, “PRI” for LAN1) has one green LED, visible on the top cover. The LED indicates activity on the associated port as follows:

- **Off**—No Ethernet link is made.
- **On**—Ethernet link is present, but no activity on the LAN.
- **Blinking**—Ethernet link is present with data activity on the LAN.

Heartbeat

The **BEAT** LED is located to the right of the Ethernet LEDs, and is yellow. Under normal operation, this LED should blink about once per second. If the heartbeat LED stays on constantly, does not light, or blinks very fast (more than once per second), contact Technical Support.

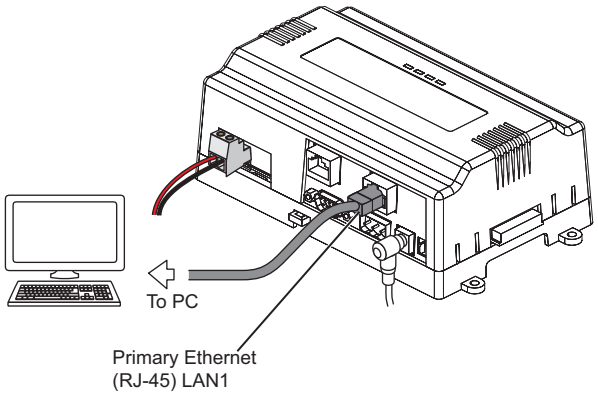
Status

The **STATUS** LED is located to the right of the heartbeat (“BEAT”) LED, and is green. This LED provides a CPU machine status check, and should be lit when the LIA-WEB is powered.

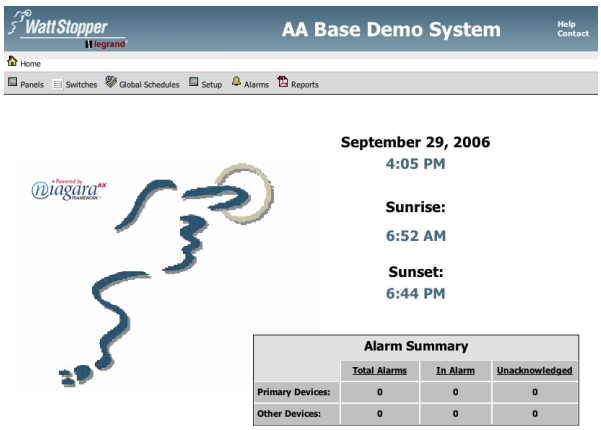
If the **STATUS** LED is not lit while power is applied, contact Wattstopper Technical Support.

INITIAL LOGIN AND SETUP

Make sure that you have followed all installation instructions and that the LIA-WEB is properly powered and connected to the segment network(s).



1. Connect a PC to the LAN 1 connection on the LIA-WEB using a standard Ethernet cable (not supplied).
   NOTE: Some older PCs require the use of a crossover cable for this connection.
2. Confirm that the LED labeled PRI is lit on the top of the LIA-WEB housing.
   This indicates that an Ethernet connection is present. Confirm that the link indicator on the PC's NIC is also lit. If both are not lit, try using another cable or try using a crossover cable.
3. Set the network adaptor in your PC to use a static IP address in the same range as the LIA-WEB.
4. Set the PC to **192.168.1.xxx** (where **xxx** is any number between 001 and 255, and is not the same as the LIA-WEB).
5. Set the subnet mask to **255.255.255.0**.
   If you need assistance with this step, see **Appendix A: Static IP Address Setup**.
   If you are connecting the LIA-WEB to a building enterprise LAN or the internet, refer to the project submittal documents and Appendix B of this manual for network configuration.
6. Open a browser on the PC, and enter the following in the address field:
   http://192.168.1.12x (where **x** is the last digit of the LIA-WEB's serial number). The LIA-WEB's serial number is printed on a label located near the LAN1 connector under the plastic cover.
7. Select **ENTER**.
   The browser displays a progress indicator while the LIA-WEB downloads a small application to the PC. This process is only required the first time that you connect to the LIA-WEB. Subsequent logins from the same PC do not take as long.
8. When the Login window opens, enter the factory default login:
   Username: Supervisor
   Password: Wattstopper1
   The appliance **Home** screen opens as shown in the example below. If the time and date are correct and your project name displays in the top banner, your unit was factory-configured. If these settings are not correct, select the **Setup** option from the navigation bar on the Home screen. This Setup screen allows changes to the site name, location, and time zones.



See the LIA-WEB Operation Guide for instructions on setting the time/date and using the LIA-WEB. If you do not have a copy of the guide, you can click the **Help** link in the upper right corner of the **Home** screen to obtain this information.

The next step is to discover the panels, switches, and photo cells, if installed. Either a Wattstopper technician is working with the installing contractor, or training was provided on the setup, configuration, and programming of the system and LIA-WEB.

MAINTAINING THE LIA-WEB

If dust or metal filings are present inside the unit, clean with vacuum or compressed air. Otherwise, no cleaning inside the unit is required. Optionally, if the cover becomes dirty, you can wipe it with a damp cloth and mild detergent.

CERTIFICATIONS

Federal Communications Commission (FCC)

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause interference with radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area may cause interference, in which case, users at their own expense will be required to take whatever measures may be required to correct the interference. Any unauthorized modification of this equipment may result in the revocation of the owner's authority to continue its operation.

Canadian Department of Communications (DOC)

NOTE: This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

REMARQUE: Cet appareil numerique de la classe A respecte toutes les exigencies du Reglement sur le material broilleur du Canada.

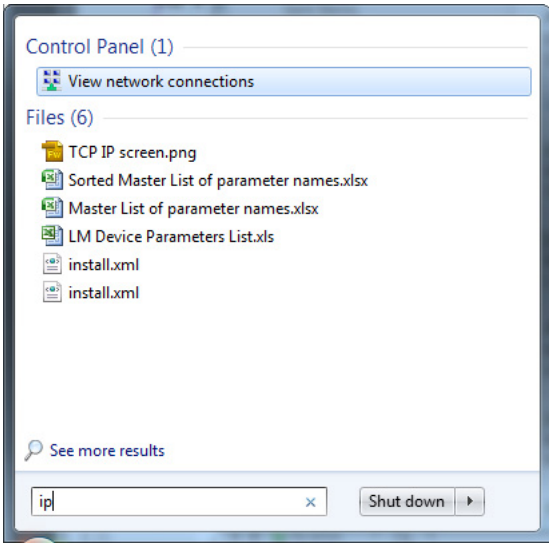
EMC Standards Applied

Standard	Description	Criteria Met
EN 61000-6-4	Electro-Magnetic Compatibility Emissions Generic	Complies
EN 61000-6-2 and EN 61000-6-1	Electro-Magnetic Compatibility Immunity	Complies
EN50081-2	Generic Emission Standard for residential, commercial, and light industrial environment	
CISPR 11	Limits of Radio Disturbance - Radiated Emissions	PASS Class A
	Limits of Radio Disturbance - Conducted Emissions	PASS Class A
IEC 61000-4-2	E.S.D	PASS Criteria A
IEC 61000-4-3	Radiated Field Immunity	PASS Criteria A
IEC 61000-4-4	Electrical Fast Transient Immunity (Signal Ports) Electrical	PASS Criteria A
	Fast Transient Immunity (AC Power)	PASS Criteria A
IEC 61000-4-5	Surge Immunity	PASS Criteria A
IEC 61000-4-6	Conducted Immunity	PASS Criteria A
EN 61000-3-2	Harmonic	Current PASS
EN 61000-3-3	Quasi-Stationary Harmonics Test, Voltage Fluctuation and Flicker	PASS
IEC 61000-4-11	Voltage Dips	PASS Criteria A
	Voltage Interrupts	PASS Criteria A
IEC 61010-10-1: 90 +A1:92 + A2:95	Safety requirement for electrical equipment for measurement, control and laboratory use	PASS

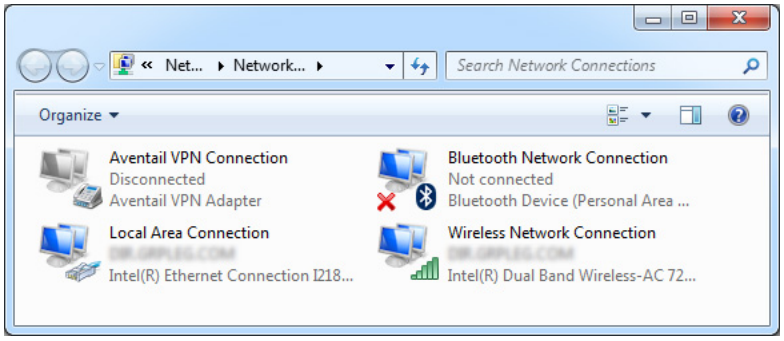
APPENDIX A: STATIC IP ADDRESS SETUP

The following step describe how to set a static IP address in Windows 7. Consult the appropriate documentation for other operating systems.

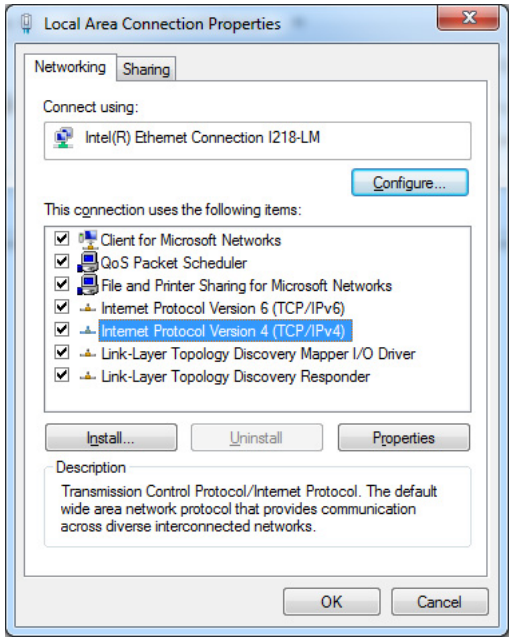
1. From the **Start** menu, select **ip**.
2. Click **View Network Connections**.



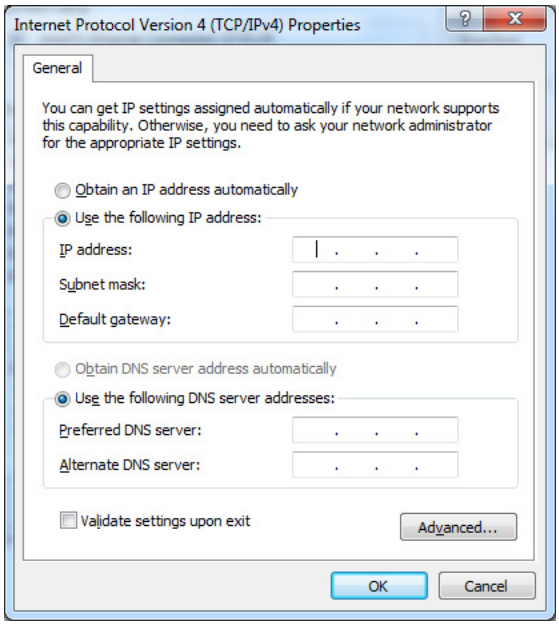
3. Right-click the wired Ethernet adapter to be used (typically “Local Area Connection”) and select **Properties**.



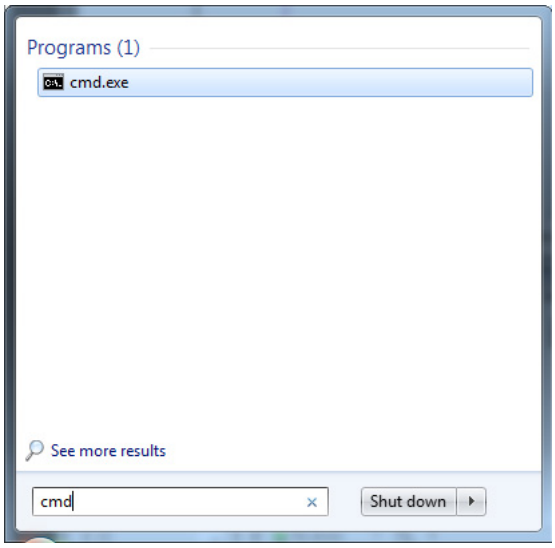
4. Select **Internet Protocol Version 4 (TCP/IPv4)**” and then select **Properties**.



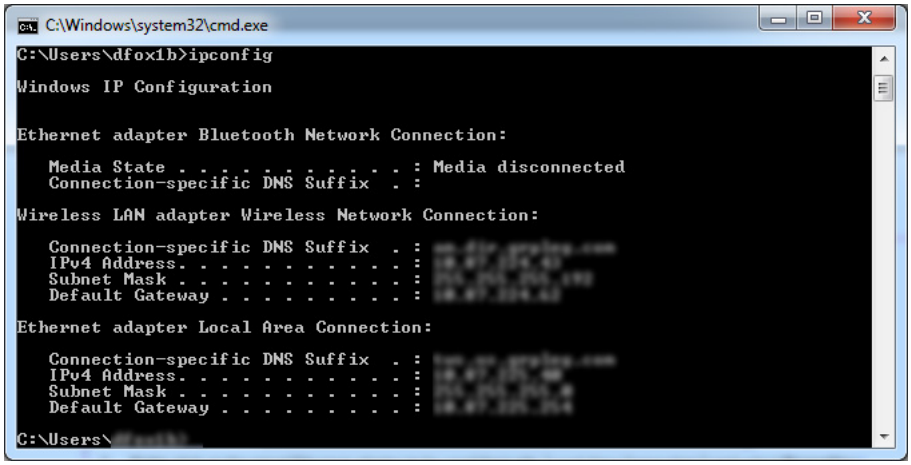
5. Select **Use the following IP address**.



6. Set the **IP Address** to **192.168.1.xxx** (where **xxx** is any number between 001 and 255 and is **not** the same as the LIA-WEB).
7. Set the **Subnet Mask** to **255.255.255.0**.
8. Click **OK** for each open window, then close the **Network Connections** window.
9. To verify the connection, type “cmd” in the **Start** menu, and select **Enter**.



10. Type “ipconfig” and select **Enter** to display the current ip settings.



APPENDIX B: NETWORK CONFIGURATION

Connecting to an Enterprise Network

Use this procedure if the LIA-WEB is to be connected to an enterprise network. You must log into the configuration utility described in this section to set up the following features:

- BACnet device ID
- Alarm notification email addresses
- TCP/IP configuration
- LIA-WEB database backup

Login

The LIA-WEB web interface is optimized for Windows XP or Windows 7, and either Internet Explorer version 9 (or newer) or Google Chrome version 36 (or newer).

1. Open a browser window and enter your lighting control system's IP Address in the address bar.
2. Select **Enter**.

   Your network sign-in screen opens.
3. Enter the user name and password (case sensitive).

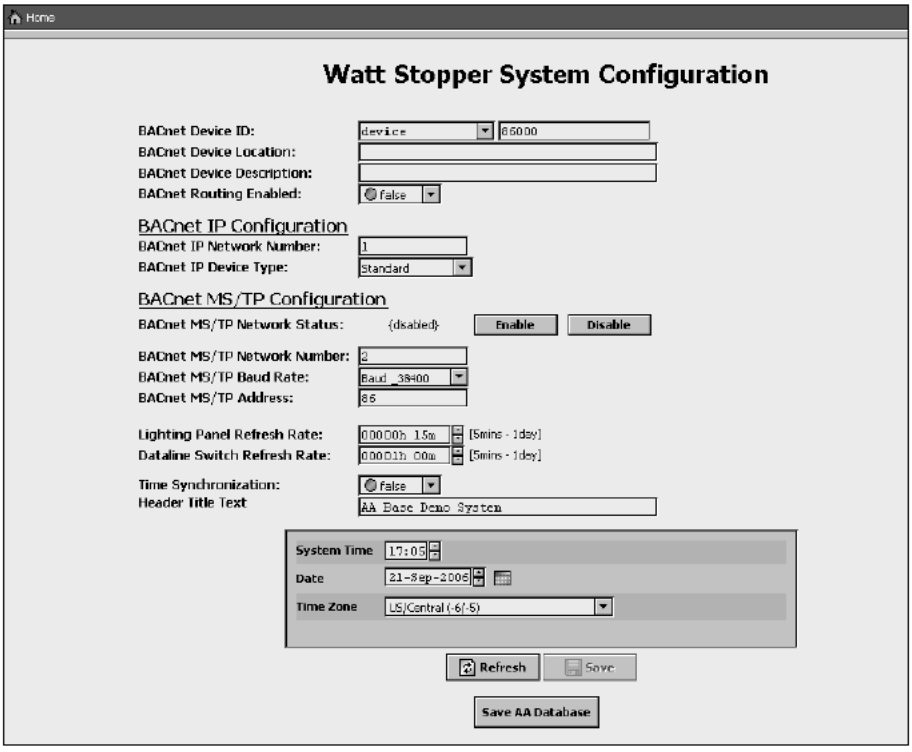
   User Name: SysAdmin

   Password: W@ttstopp3r

   NOTE: If logging in with Supervisor, Operator, User, or ViewOnly access, the password is Wattstopper1

   The browser displays a progress indicator while the LIA-WEB downloads a small application to the PC. This process is only required the first time that you connect to the LIA-WEB. Subsequent logins from the same PC do not take as long.

   The **Wattstopper System Configuration** window opens.



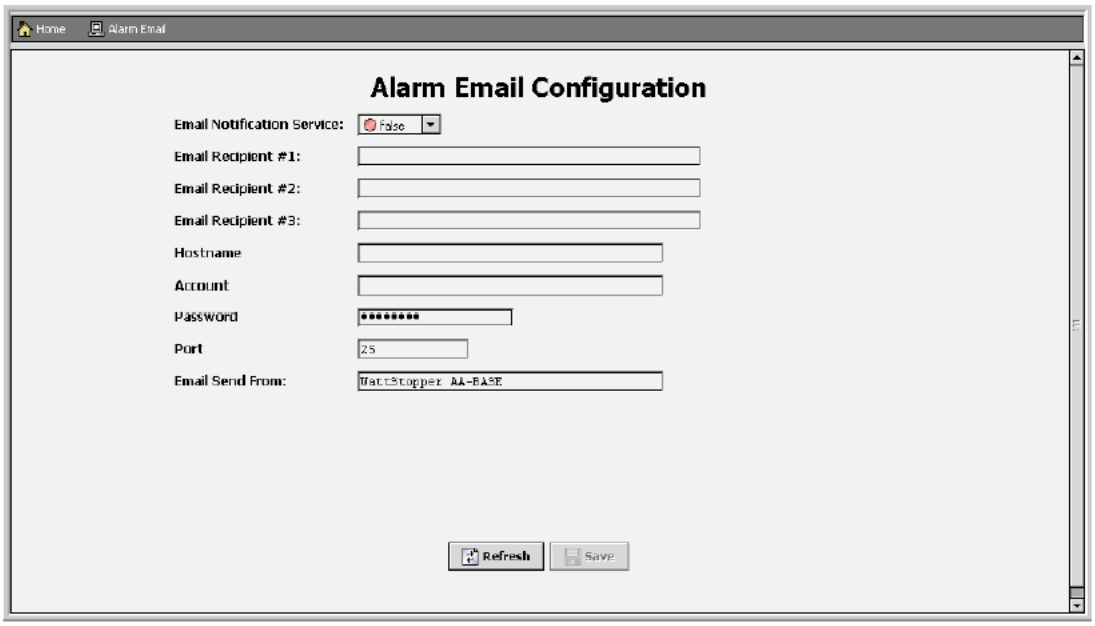
4. Enter the **BACnet Device ID** for the LIA-WEB if the lighting control system is to be interfaced with a BACnet building automation system.

   See **Appendix C** for more information about BACnet.
5. Use the Time Synchronization drop-down to select or disable the automatic time sync feature.

   The LIA-WEB must be directly connected to the internet full time to use this feature.

   NOTE: The remainder of the settings on the **Wattstopper System Configuration** window are duplicated on the **System Setup** window within the standard LIA-WEB user interface. These items may be set from either location.

6. Select **Home > Alarm Email** to open the **Alarm Email Configuration** window.

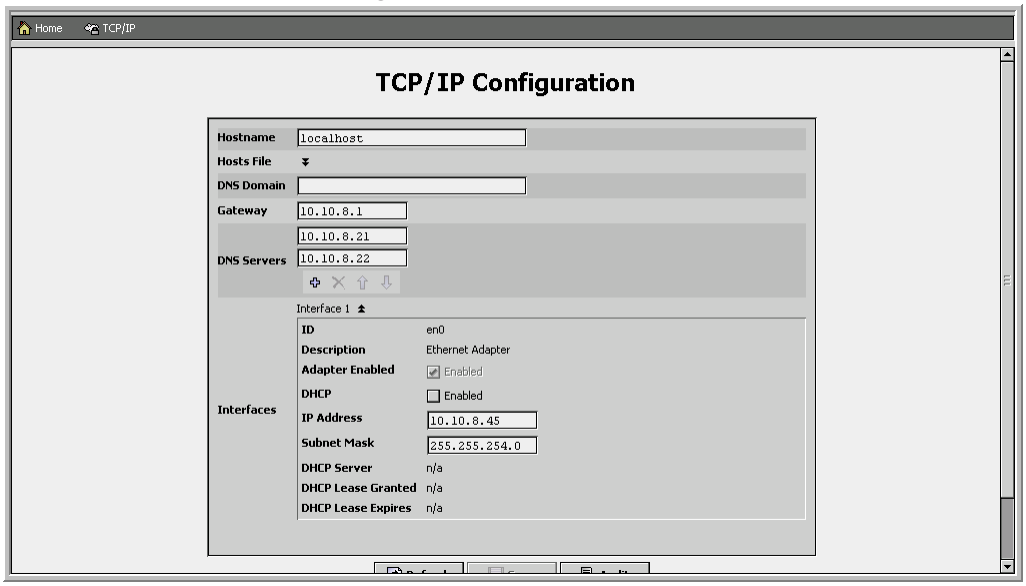


Email notification can be sent for alarms generated by Primary Devices. Primary Devices are lighting control panels and thermostats. Other devices such as switches, photo controllers, and others cause alarms on the user interface only, and do not generate email messages.

7. To use the **Alarm Email** notification feature, the LIA-WEB must be directly connected to the internet full time. Set the **Email Notification Service** field to **True** and enter one to three email addresses.

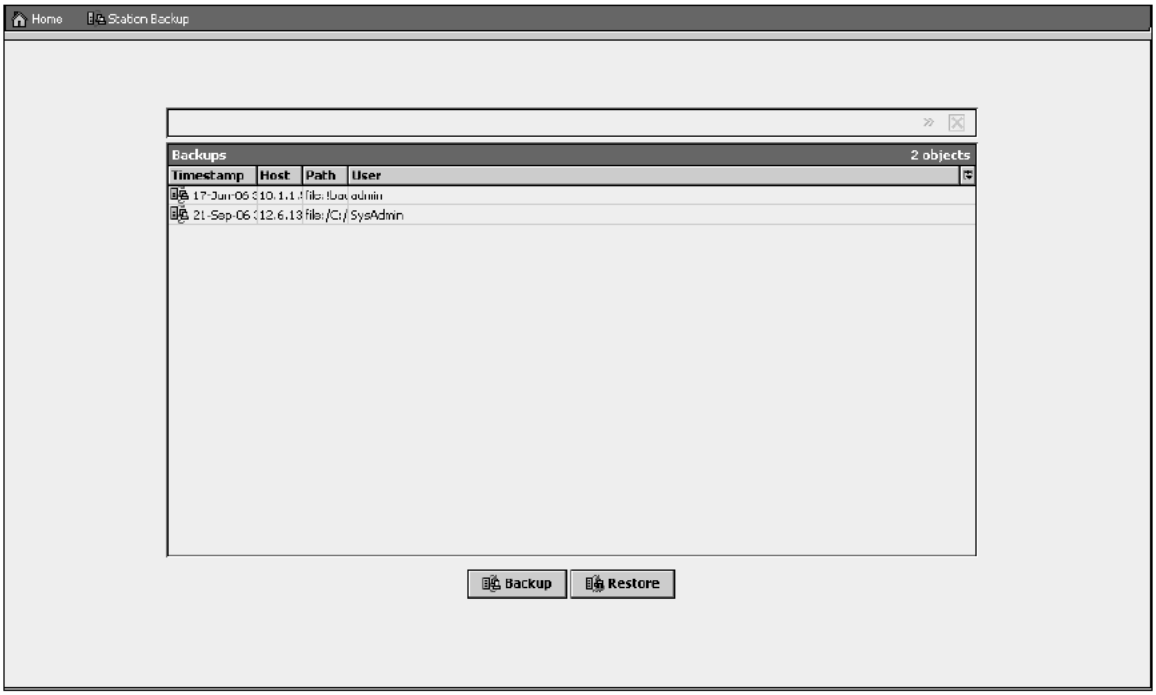
   Most applications require only the address, **Hostname** and **Port**. Some email systems also require an **Account** and **Password**.

8. Select **Home > TCP/IP** to open the **TCP/IP Configuration** window.



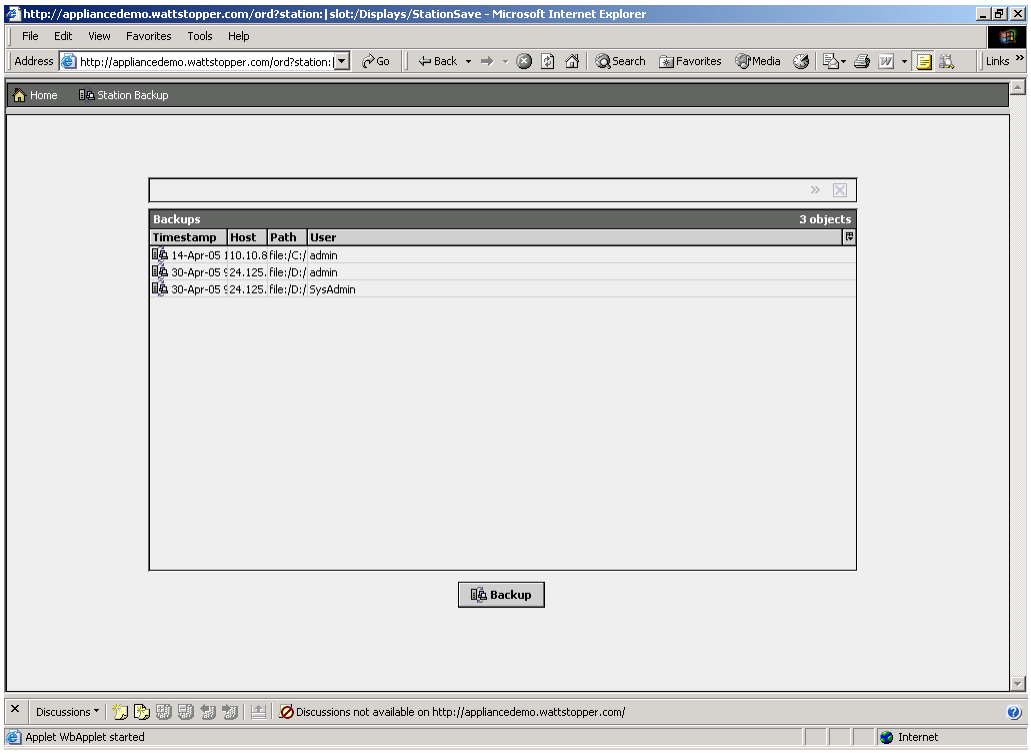
In most cases the LIA-WEB uses fixed TCP/IP settings supplied by the installation site IT department. These are entered in the appropriate boxes on the **TCP/IP Configuration** screen. Use this screen to make adjustments if necessary.

9. Select **Home > Station Backup** to open the **Station Backup** window.



This window shows a list of all the previous backups that have been performed.

10. Click the **Backup** button at the bottom of the screen to perform a backup of the LIA-WEB database.
    Use the final screens to select a location on the PC to store the file.



NOTE: It is not possible to restore the database to the LIA-WEB from this application.

The backup file can be used by Wattstopper factory technicians to pre-install the existing database into a new or repaired LIA-WEB prior to shipment.

11. When you are finished with the configuration functions, close the browser window.
12. Open a new browser window to log into the standard LIA-WEB user interface.

APPENDIX C: BACNET INTEGRATION

The LIA-WEB connects to the global dataline of a Lighting Integrator Lighting Control Panel LON™ network and provides for setup, scheduling, and override of the lighting through a web browser interface. The LIA-WEB exposes the relays and channels in all panels on the global dataline to the BAS as BACnet objects.

Before trying to connect via BACnet, commission the LIA-WEB system. As the lighting control panels are discovered by the LIA-WEB, the BACnet objects are created automatically.

The LIA-WEB has a single BACnet Device ID for the system. It contains all the BACnet objects that represent the relays (BO objects) and channels (BV objects) in all the panels. To identify the instances that are associated with each panel, the numbers are keyed using the first digit(s) as the panel address, followed by the relay number. For example, relay number 5 in panel number 2 is represented as BO205 (panel 2, relay 5).

The BV objects represent the channels, which are global to the system. Commanding the BV objects allows the BAS to “schedule” the channels globally (A in all panels, B in all panels, and so forth) to the “occupied” or “unoccupied” operating mode.

Following is a list of the BACnet objects provided in the LIA-WEB with their use. All are read/ write:

BO 101 to BO 1248 Panel 1, Relay 1 to Panel 12 Relay 48 Relay On – Off

- Use to monitor the status of individual relays.
- Use to command an individual relay **ON**.
- Use to command an individual relay **OFF**.

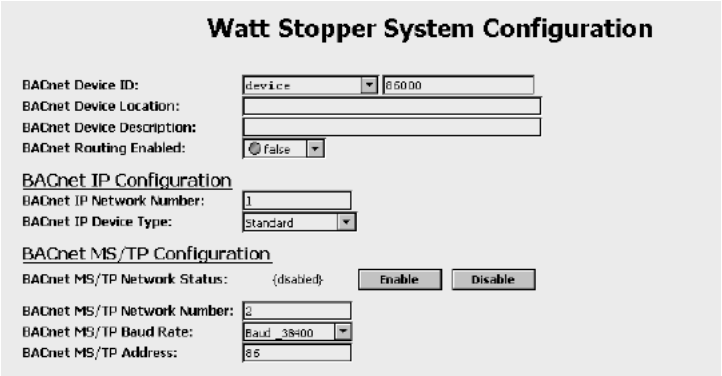
BV1 to BV8 Global channel A to H Occupied – Unoccupied

- Use to monitor the occupancy state of a channel (group of relays).
- Use to command a channel (group of relays) to Occupied state.
- Use to command a channel (group of relays) to Unoccupied state.

The integrator should note that the BO objects (relays) respond to commands according to priority in a normal BACnet manner. However, relay control via any means local to the lighting control system (such as a wall switch or a command from the LIA-WEB user interface) is considered an “override,” and controls the relay regardless of the current status of the priority array. Such override actions always occur at priority level 16, and automatically null all other levels of the BO object’s priority array.

BACnet Network Setup.

You must login as an Administrator to set the BACnet parameters. (See **Appendix B** for details)



The LIA-WEB must have a unique **BACnet Device ID**. The default setting is 86000, and in most cases this works as set by default.

The **BACnet Device Location** and **BACnet Device Description** fields are optional Device Properties that are provided as a convenience to allow identification of the LIA-WEB on the BACnet network.

BACnet IP Configuration

Set the **BACnet IP Network Number** based on the requirements of the host network.

In most installations, the **BACnet IP Device Type** setting is “Standard”. The LIA-WEB can be set up as a BACnet BBMD device by selecting this setting from the drop-down.

NOTE: Using the LIA-WEB in the BBMD mode requires specific knowledge of this BACnet feature and requires detailed network, port, and router settings that are integral to the host system. Wattstopper does not provide technical support for setup of the LIA-WEB on an enterprise LAN or on the internet in BBMD mode.

BACnet MS/TP Configuration

The BACnet MS/TP Network Status must be enabled to use the LIA-WEB on an MS/TP network segment.

The default setting is disabled. Note that use of the optional modem and the MS/TP port are mutually exclusive, since they both use the same serial connection to the LIA-WEB.

- Set the **BACnet MS/TP Network Number** based on the settings in the host controller for this MS/TP network segment.
- Set the **Baud Rate** to the requirements of the host system.
- Set the **BACnet MS/TP address** to a unique number for this MS/TP segment that is less than 127 (this setting is often referred to as the MS/TP MAC address).

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