SiteSync IQ INST SSIQ N P Wireless Clock System Instruction Manual

Contents

SiteSync IQ INST SSIQ N P Wireless Clock System

INSTUCTION MANUAL

Sitesync IQ® Wireless System Controller with GPS Plus & Magnetic Mount TX Antenna

Please read this first!

After determining the proper wattage for your facility, we guarantee the coverage of your SiteSync IQ when you follow a few simple steps. If this is your first installation or you have questions at any time during this process, please call American Time toll free at **800-328-8996**. We're here to help!

This Quick Start Guide will help you avoid three common installation mistakes:

1. Improper location of transmitting (TX) antenna. A temporary install of the system controller is recommended.

Don't drill holes for permanent installation and mounting until the system is working correctly.
2. Improper system controller start-up. A successful transmission is indicated by a TX in the lower right-hand corner of the system controller screen. Don't locate the campus TX antenna within 4′ of the system controller.
3. Improper clock start-up. Activate clocks in their intended location. Don't activate the clocks in one room and move them to another location as signal reception will not be verified. Make sure the system controller is transmitting and is not in Quiet Mode.

IMPORTANT! Clocks should be installed within 24 hours of installing the system controller. After 24 hours, the system controller will enter Quiet Mode. Pressing 3-5-7 on the keypad will disable Quiet Mode for 6 hours. Reference Appendix J in the SiteSync IQ Installation and Operation Manual for more details on Quiet Mode.

QUICK START INSTALLATION GUIDE

1. Unpack the box

Remove the components and system controller from the box. Save the packing materials in case you need them later.

2. Check the components

Your system kit comes with:

- System Controller
- Premium GPS receiver with 50′ cable and mounting kit (A)
- Power supply (B)
- Magnetic mount TX antenna with 12′ cable (C)
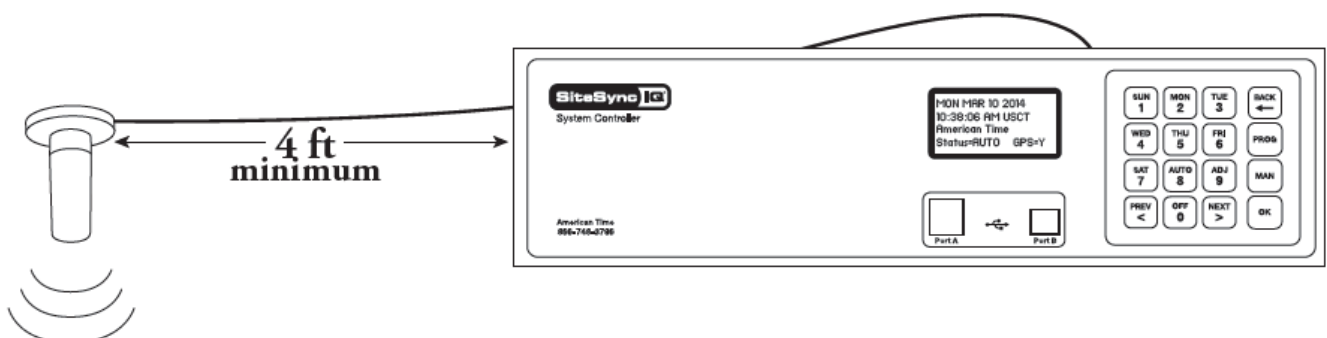- USB Flash drive
- Installation and Operation Manual

3. Choose your location

a. Choose a location for the GPS receiver outside with a clear view of the sky. The included mounting bracket allows for mounting on the side of a building or other structure. The included set of u-bolts can be used to attach the bracket and GPS receiver to a mast.
Note: Avoid high voltage equipment and excessive roof overhang when choosing location.
b. Locate the system controller in an area with a network drop, or run an Ethernet data cable to the unit from a network switch or hub.
c. Choose a location for your magnetic mount TX antenna either outside or inside at the highest central location in your facility

Note: The TX antenna must be located at least 4′ away from the system controller and must always point up or down, never horizontal. The cable length cannot be extended.

System controller located high & central with Ethernet drop for time reference

TX Ant signal out to clocks

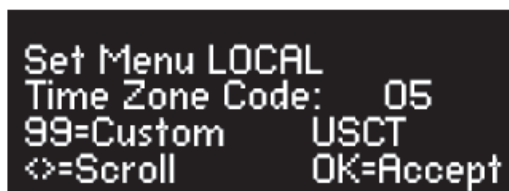GPS signal in

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4. Connect cables to the system controller

a. Connect the GPS antenna to the PREM GPS port (A). Connect a CAT 5 or higher Ethernet patch cable (not included) to the ETHERNET RJ45 port.
b. Connect the System Controller power supply to the POWER INPUT port (B).
c. Connect magnetic mount TX antenna to TX ANT port (C).
d. Plug 110v cord into power source. Turn the POWER SWITCH on the back of the system controller to the on position.

See the SiteSync IQ Installation & Operation Manual for detailed instructions.

To local power (110vac)

5. Use the Setup Wizard

a. PRESS [SUN 1] to start the Setup Wizard (Page 10 in Installation Manual).

b. Create a 4 digit User Lock or enter 0000 to disable this feature. PRESS [OK].

c. Create a 4 digit Service Lock (for advanced features) or enter 0000 to disable this feature. PRESS [OK].

d. Select local time zone by using the [PREV <] [NEXT >] keys. PRESS [OK].

USET=Eastern, USCT=Central
USMT=Mountain, USPT=Pacific

```
Set Menu LOCAL
Time Zone Code:    05
99=Custom      USCT
<>=Scroll      OK=Accept
```

Note: There are 40 options to choose from (Appendix B in Installation Manual).

e. PRESS [AUTO 8] to select automatic DST (Daylight Saving Time) or [OFF 0] to disable DST if your location doesn't observe DST. PRESS [OK].

f. PRESS [SUN 1] for 12-hour mode – AM/PM (1:00PM).

PRESS [MON 2] for 24-hour mode – Military (13:00)

Note: Screen will advance immediately

g. PRESS [SUN 1] to Setup Sync Options

h. PRESS [SUN 1] for (GPS) or PRESS [MON 2] for Ethernet priority

i. PRESS [SUN 1] to Enable DHCP or Press [MON 2] to Disable DHCP. PRESS [OK].

j. Use the keypad to enter the Unit IP Address. PRESS [OK].

k. Enter the Subnet Mask. PRESS [OK].

l. Enter the Gateway IP. PRESS [OK].

m. Enter the DNS IP. PRESS [OK].

Skip if [SUN 1] is selected in step i.

n. PRESS [SUN 1] to use a Manual IP, or PRESS [MON 2] for a DNS IP Time Server. PRESS [OK].

- If [SUN 1] Manual IP, enter Time Server Address and PRESS [OK] to accept. Repeat for Alternative Time Server.
- If [MON 2] DNS IP, PRESS O.

Note: this value can only be changed in Remote Connect.

o. Press [OK] to accept the default (80) Port Number

p. To confirm proper set up, press [OK] to sync.

- If successful, "Ethernet Sync Successful" will display.
- If not successful, "Ethernet Sync Failed" will display. Refer to the troubleshooting guide in manual.

q. PRESS [AUTO 8] to sync GPS. If Successful, PRESS [OK] to Set and exit.

- If not successful, "Sync Failed" will display. Refer to the troubleshooting guide in the manual.

r. "Setup Wizard Successfully Completed" will display.

6. Select Clock Code (for existing wired clock systems)

Continue on to Step 7 if you are not connecting wired clock circuits.

a. Reference Appendix I in the manual for clock codes and wiring information
if you have wired circuits. Clock Code 01 is set from the factory. If 01 is the code required, skip to 7 – Verify Unit is
Transmitting. If the code needs to be changed continue to next step.

b. PRESS [PROG] [FRI 6] and enter your service lock to access the Configuration Menu. From the Config Menu,

PRESS [TUE 3]. This feature is used to set the clock code for wired clock circuits. Enter the clock code using the

keypad, or choose 00 if you want to disable the clock code feature. Press [OK].

7. Verify Unit is Transmitting

The system controller now shows the correct time and date. You will no longer be prompted on power-up for setup
information.

TX should display for about three seconds every 30 seconds (approximately the top and bottom of every minute)
in the bottom right corner of the screen.

```
MON MAR 15 2021
10:38:06 AM  USCT
American Time
Status=AUTO      (TX)
```

8. Activate and hang your clocks

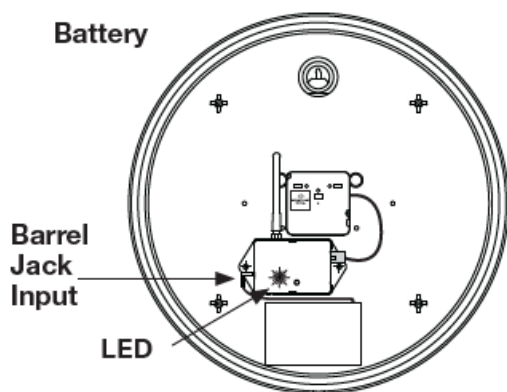Don't activate the battery or apply power to the clocks until the system controller is installed and transmitting and the clock is in the intended location.

Note: Clocks should be installed within 24 hours of installing the system controller. After 24 hours, the system controller will enter Quiet Mode. Pressing 3-5-7 on the keypad will disable Quiet Mode for 6 hours. Reference Appendix J in the SiteSync IQ Installation and Operation Manual for more details on Quiet Mode.
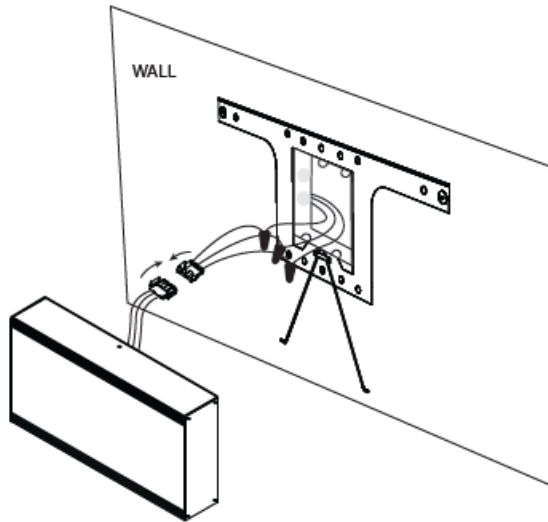
9. Battery Analog Clocks

a. Take the clock to the area where it will be used.
b. To activate the clock, connect barrel jack plug of battery pack to wireless receiver. The LED on the back of the clock will flash red within 30 seconds of power-up to indicate receiver is looking for the wireless signal.
c. When the signal is received, the LED will flash green.
Be patient. The clock hands will rapid advance to the correct time. This may take up to seven minutes.
d. Hang the clock after hands are rapid advancing.

Note: If the LED does not flash within 30 seconds, remove the barrel jack plug of the battery pack from the wireless receiver for 5 seconds and reconnect it. This resets the receiver. The LED will begin flashing within 30 seconds.
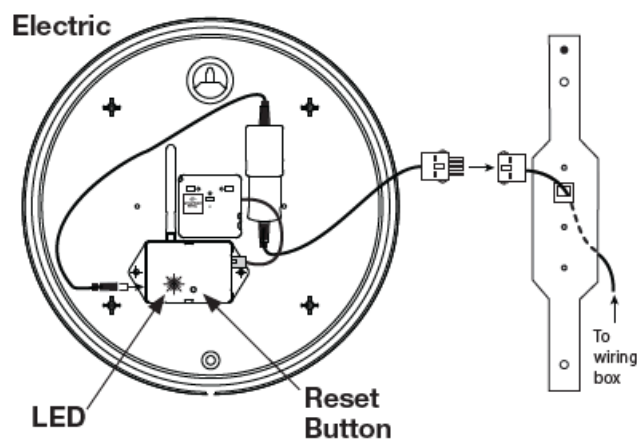

10. Digital Clocks

a. Take the clock to the area where it will be used.
b. To activate the clock, connect power.
c. Verify synchronization takes place within 2-5 minutes by confirming the colons are not blinking.

11. Electric (AC) Analog Clocks

a. Take the clock to the area where it will be used.
b. To activate the clock, connect to AC power. The LED on the back of the clock (see below) will flash red within 30 seconds of power-up to indicate receiver is looking for the wireless signal.
c. When the signal is received, the LED will flash green.
Be patient. The clock hands will rapid advance to the correct time. This may take up to seven minutes.
d. Hang the clock once signal reception is verified and clock is operating correctly.

Note: If the LED does not flash within 30 seconds, disconnect the barrel plug on the clock receiver, wait 10 seconds and reconnect. The LED will begin flashing within 30 seconds.

Your SiteSync IQ system is now set up for proper operation. For information on other features, see the Installation and Operation Manual that was included with your system. If you have any questions, please contact Technical Support at American Time: **800-328-8996**.

Product Specifications:

- Model: SiteSync IQ
- Power Source: Battery or Electric (AC)

- Clock Type: Digital, Battery Analog, Electric (AC) Analog Installation: Wall-mounted
- LED Indicator: Red for signal searching, Green for signal received

Product Usage Instructions:

Digital Clocks:

1. Take the clock to the intended location.
2. Connect power to activate the clock.
3. Ensure synchronization within 2-5 minutes by checking for stable colons.

Battery Analog Clocks:

1. Place the clock in the desired location.
2. Connect the barrel jack plug of the battery pack to the wireless receiver to activate.
3. Wait for the LED to flash red, then green upon signal reception.
4. Hang the clock after the hands rapidly advance to the correct time.

Electric (AC) Analog Clocks:

1. Position the clock where it will be used.
2. Connect the clock to AC power to activate it.
3. Observe the LED flashing red, then green once the signal is received.
4. Hang the clock after ensuring proper signal reception and correct operation.

Frequently Asked Questions (FAQ):

Q: What should I do if the LED on the clock does not flash within 30 seconds of power-up?

A: For battery analog clocks, disconnect and reconnect the barrel jack plug after 5 seconds. For electric analog clocks, disconnect and reconnect the barrel plug on the clock receiver after a 10-second wait.

Q: How do I disable Quiet Mode on the system controller?

A: Press 3-5-7 on the keypad to disable Quiet Mode for 6 hours.
Refer to Appendix J in the SiteSync IQ Installation and Operation Manual for more details.

Documents / Resources

SiteSync IQ INST SSIQ N P Wireless Clock System [pdf] Instruction Manual
INST SSIQ N P Wireless Clock System, INST SSIQ N P, Wireless Clock System, Clock System, System

References

- **Synchronized Clock Systems - Replacement Clocks | American Time**
- **User Manual**