

SiteSync IQ[®] Wireless System Controller Kits 5 and 10 watt

The Clock Experts

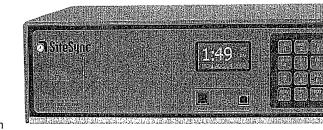
FEATURES

- 2 Year Warranty
- UL Listed
- Internal clock accuracy of ±1 minute per year
- Guaranteed coverage with one transmitter
- Multiple sync options: GPS, CDMA, Ethernet
- Automatic Daylight Saving Time & Leap Year correction
- Control of up to 6 signal circuits
- 100% FCC compliant
- Available with 5 and 10 watt internal transmitters
- Time Zone clock support for up to 8 unique time zones
- · Field upgrades via USB flash drive

SYSTEM CONTROLLER SPECIFICATIONS

| Input voltage to power adapter: | 100-240vac, 50/60 Hz |
|------------------------------------|---|
| Output voltage from power sdapter: | 12.0 ±0.6 vdc |
| Peak input power: | |
| Nominal power: | 2.5 watts |
| Fuse: (input power) | |
| Standby timekeeping: | 10 years |
| Memory/Time backup: | CR2032 lithium battery, 240 mAh capacity |
| Timekeeping accuracy: | ± 1 minute/year without correction from GPS or Ethernet time reference |
| Program retention: | Unlimited |
| Programmable Events: | |
| Schedules: | 99 maximum |
| Signal duration: | Programmable 1-9 seconds or continuous On |
| UL Listed: | |
| Optional clock circuits (1): | Dry contacts rated at 250vac, 8 amps resistive, 5 amps inductive |
| Clock circuit fuses (2): | |
| Optional signal circuits (6): | Dry contacts rated at 250vac, Continuous: 7.5 amps resistive, 5 amps inductive, |
| | 50% duty cycle*: 10 amps resistive |
| Physical dimensions: | |
| Temperature range: | |
| Mounting: | |
| | Ethernet, RS-422 (GPS Plus), RS-232 (Std GPS), Contact Closure Sync (2-wire) |
| Shipping weight: | $71_2 \pm 1_2$ lbs. |
| Display: | |
| | 16 button tactile feedback membrane switch |
| RF frequency range: | 450-470 MHz |
| | |

*50% duty cycle is defined as all signal relays on for one minute, off for one minute, repeating



ORDERING INFORMATION

The following table shows the options included with each model number. Change the **W** in the model number to indicate the power for the transmitter (00=none, 05=5 watts, 10=10 watts internal transmitter). The magnetic mount antenna is standard with 5 & 10 watt models. If your application requires the campus antenna, change the **N** in the model number to **C**. Change the **S** in the model number to indicate the number of clock and signal circuits (0, 2, 6 or 8) that are required.

Example 1: SSQMSTR-05N0G has a 5 watt transmitter, 0 signal circuits and includes the Standard GPS sync option.

Example 2: SSQMSTR-10C2E has a 10 watt transmitter, a campus antenna, 1 clock circuit, 0 signal circuits and includes the Ethernet sync option.

Example 3: SSQMSTR-10N8C has a 10 watt transmitter, 1 clock circuit, 6 signal circuits and includes the CDMA sync option.

| Model No. | Standard GPS | GPS Plus | Ethernet | CDMA | Wireless Sync | 2-Wire Sync |
|---------------|-----------------|-------------|----------|------|------------------|----------------|
| SSQMSTR-WNSB | | | | | | X |
| SSQMSTR-WNSGE | X | | Х | | | |
| SSQMSTR-WNSG | X | | | | | X |
| SSQMSTR-WNSP | | Х | | | | Х |
| SSQMSTR-WNSPE | | Х | Х | | | |
| SSQMSTR-WNSC | | | | Х | | Х |
| SSQMSTR-WNSCE | | | Х | X | | |
| SSQMSTR-WNSE | | | X | | | X |
| SSQMSTR-WNSW | | | | | Х | X |

MODEL # SSQMSTR-IONOE

SYNC OPTIONS

Standard GPS Option: This option provides time synchronization via the Global Positioning System (GPS). The 15 ft. GPS cable can be extended up to 100 ft. with extensions. See specifications on Page 3.

GPS Plus Option: This option provides time synchronization via the Global Positioning System (GPS). The option includes weather-tight, non-corrosive connections for outdoor installation and can be extended further (up to 1500 ft.) than the Standard GPS option. See specifications on Page 3.

Ethernet Option: This option provides time synchronization via Simple Network Time Protocol (SNTP) or Daytime Protocol from Internet Time Servers or an internal Network Time Server. It eliminates the need to mount an outside receiving antenna.

The Ethernet option also includes the Remote Connect web server, which enables event programming, circuit selection and activation and other system features remotely accessed via web browser from a computer.

CDMA Option: This option provides time synchronization via Code Division Multiple Access (CDMA). This is often used in the mobile telephone industry. It eliminates the need to mount an outside antenna. There are no cell phone tower service fees for the CDMA time signal.

Wireless Sync Option: This option allows one SiteSync IQ System Controller to synchronize another, wirelessly. This option includes an attached wireless receiver on the receiving unit. A common application for this option is a wired bell or tone system in an area remote from the transmitting unit.

Contact Closure (2-wire) Sync Option: This option allows a SiteSync IQ System Controller to be synchronized with existing equipment with a contact closure. This type of synchronization can also be implemented between two SiteSync IQ System Controllers.

Standard GPS Option Receiver H003738X

For best results, mount the GPS antenna to an outside wall or to a mast on the roof with a clear view of the sky. The location should be unobstructed by trees, branches, power lines and other buildings, etc.

SPECIFICATIONS

- Input voltage:4.0 -5.5vdc
- Input current:60mA @ 5vdc
- Baud rate: 4800
- Color:Black
- Weight:115.6 grams
- Connector plug-in: RJ45
- Operating temperature: -22°F to 176°F (-30°C to 80°C)
- Storage temperature: -40°F to 194°F (-40°C to 90°C)
- Cable extensions: Optional: 25 ft., H001840, CMX Rated

50 ft., H001841, CMX Rated 50 ft., H001841P, Plenum Rated 75 ft., H001842, CMX Rated 100 ft., H004340P, Plenum Rated

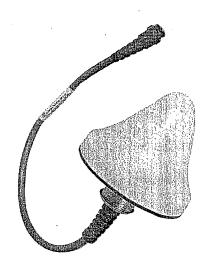
GPS Plus Option Receiver H000834

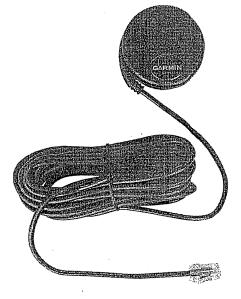
SPECIFICATIONS

- Input voltage:+8V +36 volts DC unregulated
- Input current:70mA maximum
- Communication:RS422
- Color:White
- Weight:14 oz. (0.4 kg)
- Housing material: Cycolac ABS Radome, Aluminum base
- Connector plug-in: Deutsch MMP21-2212S1 (12-pin Male)
- Operating temperature: -40°F to +167°F (-40°C to +75°C)
- Storage temperature: -40°F to +185°F (-40°C to 85°C)
- Cable extensions:Optional 50 ft. extensions (H000818)
- Max. extension cable length: 1500 ft. (457m) total

All external components are U/V stabilized for extended exposure to the sun and the elements.

All cables include shrink tubing for sealing connections.





WIRELESS CAMPUS KIT H002978T

This option provides time synchronization via the Global Positioning System (GPS). The option includes weather-tight, noncorrosive connections for outdoor installation and can be extended further (up to 1500 ft.) than the Standard GPS option.

Antenna Specifications

- Frequency range: 450-470 MHz
- Nominal gain: 0 dBd
- .
- Polarization: Vertical
- Pattern: Omni-Directional Antenna lighting protection: DC ground
- Termination: N-Female connector .
- Width: 13/,"
- Weight: 0.85 lbs.
- Rated wind velocity: 125 mph
- Rated wind velocity w/0.5" radial ice: 85 mph

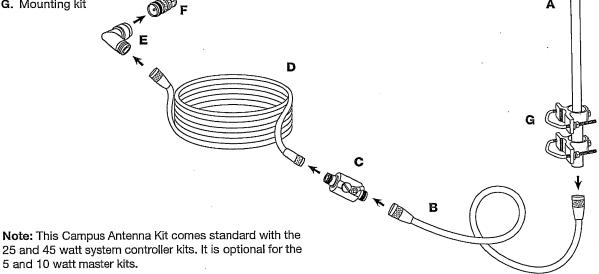
Lightning Arrester Specifications

- Maximum power: 1000 watts
 - (0-1000 MHz)

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Kit Includes:

- A. Heavy-duty, outdoor type 26 in. fiberglass antenna
- B. 10 ft. COAX cable
- C. Lightning Arrester
- D. 50 ft. COAX cable (plenum rated option available-H002978TP)
- E. N female to N male right angle adapter
- F. N female to BNC male adapter (only for direct connection to IQ system controller
- G. Mounting kit



At American Time & Signal, we continually strive to improve our products to meet our customers' needs and to provide the best possible value. The above specifications are believed to be correct, are subject to change without notice and may otherwise vary from the above. Please call if you need verification of any specifications or the © American Time & Signal Company suitability of a particular product for a particular application.



Battery Backup Unit with Surge Protection



It is recommended that a Battery Backup Unit with surge protection be used to prevent signal disruption and/or damage to the SiteSync IQ® system controller. American Time and Signal offers this Battery Backup Unit with Surge Protection.

Note: Connecting additional equipment to the Battery Backup outlets will reduce battery backup time for the SiteSync IQ[®] system controller and optional transmitter if applicable.

GENERAL INFORMATION

- Battery load capacity:550VA (330W)
- Outlets:4 with battery backup and surge protection
 4 with surge protection only
- Output voltage on battery:115vac ± 8%
- Total Output Current......12 amps
- UL 1778 listed:Yes
- EMI/RFI noise filter: FCC Class B
- Typical battery recharge time:18-24 hours
- Frequency:60Hz

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SiteSync IQ[®] System Controller Remote Connect Web Interface



GENERAL FEATURES

- Set Time Zone & DST configuration
- · Change system passwords
- Update Firmware
- Assign custom durations
- Manage programming of up to 6 circuits
- Trigger wired and wireless devices remotely

MINIMUM SYSTEM REQUIREMENTS (computer)

- Internet Explorer 6.0 or Firefox 1.0 or Higher
- Windows 2000, XP, Vista or Windows 7
- Java Runtime Environment (JRE) 6 Update 15 or Higher
- Network Adapter or Wireless Network Adapter

GENERAL TAB FEATURES

- View and change clock code
- View and change device name
- Manually adjust wired clocks
- View important information about your device
 Software version
 - ➤ Model & Serial Number
 - ➤ Unit Configuration
 - ➤ Transmitter Call Sign

EVENT TAB FEATURES

- · Enter schedules remotely
- Backup schedules
- Print Schedules
- · Import and Export Schedules to and from PC's

CIRCUIT TAB FEATURES - SCHEDULE

- Assign schedules to circuits
- Schedule circuit assignment changes
- Set default circuit durations
- Name circuits

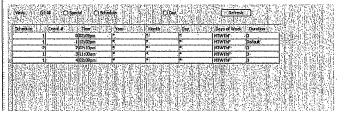
DESCRIPTION

The Remote Connect Web Interface allows remote access to your SiteSync IQ system controller via a web browser. This includes Event and Circuit programming, manual circuit activation, time/ date settings and other system configurations.

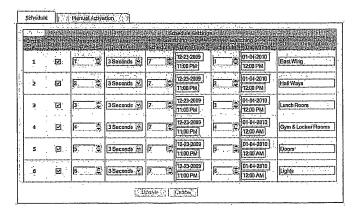
Support 3

General Set. Event Circuit Ellernet Gus Hesseyny Configuration Clock Code: Off Circuit Status, @Auto @Off : Device Name: SiteSync IO Time Last Set: [10;]6-2009 UND: 15A(Source: FTHE BNET) revious/Next Signal Soltware Version: 0.5928 Event: 4 Serial Number; 00116D010093 Circuits: Transform Unit Configurations MINI Model Numbert 02109.PM Call Signi WOFW336 (Notes) Scarsa |

General Set Event Urant Ethernet Gos Tracsoons, Contavador



Geheitel Set Event Circuit Ethemet Gps Messaging Colfiguration Clock Code Manufacturing



Control wired and/or wireless circuits manually

| Ge | nerai | Set | Event | Circuit | Ethernet | Gps | Messagina | Configuration | Clock Code | Manufacturing | |
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ETHERNET TAB FEATURES

- Enable/Disable Server/Client Functionality
- Set Time Server IP Address
- View Received/Sent Packets

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| | Unit IP Address: Type: |
| | Time Server (19:) 134 1, 107 - [1013 -] 100.] Address |
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| | Gateway IP: 198 4 4 4 8 9 9 1 4 9 9 9 |
| | MAC Addressi |
| | Port Number: 30 |
| | r History 1 |
| | Packets Relevied: 20612 |
| | Packets Sent: 19455 |
| | a commentaria de la compansión de la compa |
| | Reset Perkets RATE: |
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GPS TAB FEATURES

- Enable/Disable GPS time updates
- View number of tracked satellites
- View last signal Received by GPS

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|-----------------------|---|
| GP5 Time Updates: | Genable O'Disable |
| Trarked Satellites: | Q 能見 計畫 計解]]]]][[1]] |
| Signal Status: | Std GRS Enabled |
| Signal Last Received: | 10-20-2009 ii0 54 12A |
| | [[cancally] [Ligerat] |
| | |

CDMA TAB FEATURES

- Enable/Disable CDMA time updates
- View signal strength of CDMA
- View last signal received by CDMA
- Set CDMA Bias

General Set Event. Crouit. Ethernet. CDMA Messaging. Configuration CDMA Time Updates: () Enable () Disable Signal Strength: () Enable () Disable Signal Status: Received () Disable CDMA Bias (+/) () Disable FUIPERAL () Disable

MESSAGE TAB FEATURES

Manually send POCSAG messages

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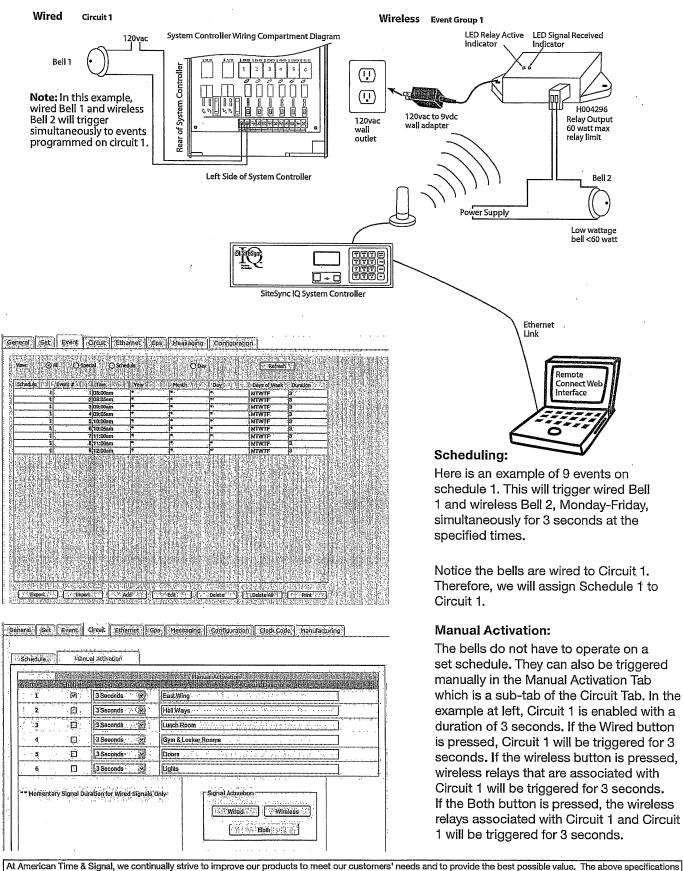
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| 2 | 0800812 | Welcome Parentsl | Welcome | Ē |
| 3 | 0800812 | 2 Hour Late Start | 2 Hour Late | |
| 4 | 0800812 | Homecoming | Homecoming | |
| 5 | 0800812 | School Play Tomonow | Ркну | Ē |
| 6 | 0800812 | Registration Deadlines | Registration | |
| | USUUB12 | Congrats Seniors | Congrats | |
| 8 | 0800812 | Pizza:Hnt Drigs | | |
| 9 | 0800812 | Tomado | Tomado Drill | |
| 10 | 0800812 | Firel Firel Firel | Fire Drill | |

CONFIGURATION TAB FEATURES

- Set Auto DST dates and times
- Set Remote Connect User/Service passwords
- Set Banner Text
- Select Time Sync Priority
- Select Time Display Format (12hr/24hr)
- Set Keypad User/Service Locks
- Select LCD display size
- Enable/Disable Setup Wizard
- Enable/Disable Quiet Mode
- Update Firmware

| Serieral Set Event Circuit Ethernet Gos. Messaging Configuration | |
|---|------------------|
| Set Autor DST Dates Start: 2nd Start: 3nd Start: 2nd Start: 3nd Start | |
| User Password: | |
| Service Password: | |
| .Banner Text: American Time & Sig. | |
| Time Sync Priority: Ethernet | |
| Time Display Format: 012 Hour 024 Hour | |
| Manage User Lock: 1**** | |
| Manage Service Lock: | |
| Display Size: Otstrae S small | |
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APPLICATION EXAMPLE





Wireless Analog Steel Case Clocks Battery

GENERAL INFORMATION

- Case: Heavy-duty steel
- Clock hour & minute hands: Black
- Clock second hand: Red
- Power: 1 (1.5V) AA Lithium battery (included)
 - Battery life approx. 1 year
- Battery Booster Plus[®]: Option for up to 5 years maintenance free,
 - uses 4 AA Lithium batteries (included)
- Rear panel indicator: Red LED indicates receiver wake-up and time sync
- Receiver sensitivity: 10uV per meter
- Antenna type: Internal
- Time to synchronize: Average time to sync is 3 to 5 minutes (syncs automatically 4 times per day)
- Time accuracy: ±1 second to SiteSync IQ[®] System Controller
- Warranty: Two Years

PHYSICAL / ENVIRONMENTAL SPECIFICATIONS

- Operating temperature: 41°F to 131°F
- Storage temperature: 41°F to 131°F
- Relative humidity:0% 95% Non-condensing

ORDERING INFORMATION

| | | Part # | |
|-------------|--------------------------------|----------------------------|-------|
| Part # | Description | with Battery Booster Plus® | |
| SQ44BHDD904 | 10" Round, surface mount | SQ44BHDD904BP | |
| SQ45BHDD?04 | 10" Round, flush mount | SQ45BHDD?04BP | BEZEL |
| SQ54??DD904 | 12" Round, surface mount | SQ54??DD904BP 📈 🗤 / 🛛 H | BETEL |
| SQ55??DD?04 | 12" Round, flush mount | SQ55??DD?04BP | |
| SQ57??DD904 | 12" Square, surface mount | SQ57??DD904BP | |
| SQ58??DD?04 | 12" Square, flush mount | SQ58??DD?04BP | |
| SQ53??DD204 | 12" Round, double dial wall | SQ53??DD204BP | |
| SQ52??DD204 | 12" Round, double dial ceiling | SQ52??DD204BP | |
| SQ64??DD904 | 15" Round, surface mount | SQ64??DD904BP | |
| SQ65BHDD?04 | 15" Round, flush mount | SQ65BHDD?04BP | |
| SQ63??DD204 | 15" Round, double dial wall | SQ63??DD204BP | |
| SQ62??DD204 | 15" Round, double dial ceiling | SQ62??DD204BP | |
| | | | |

- Note: Replace the ?? in the part # with the 2 letter code for the bezel finish. See colors below. BH=Black Sand GH=Steel Gray All 10" (all) & 15" flush available in Black Sand only.
- Note: If flush mounting in an existing backbox, change the ? in the Part # to specify correct hanger type from the list below: 1=National Time 5=Simplex[®], Dukane, Lathem 6=Cincinnati, Edwards, Faraday, Honeywell 8=Standard[™] Electric

Dowt #

Other dial styles available.

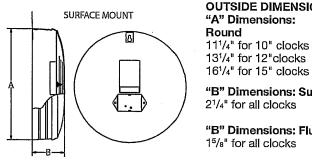
Note: Add L to the end of the Part # for personalized dial option Add RT to the end of Part # for the 25' remote receiver option Add RF to the end of Part # for the 50' remote receiver option

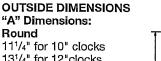
BEZEL FINISHES



Black Sand=BH

Steel Gray=GH

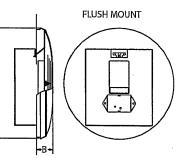


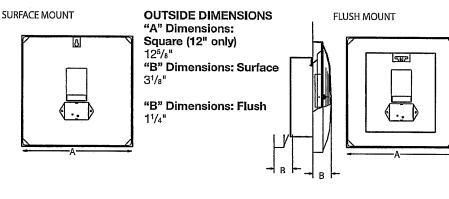


16¹/₄" for 15" clocks

"B" Dimensions: Surface 21/4" for all clocks

"B" Dimensions: Flush 15/8" for all clocks





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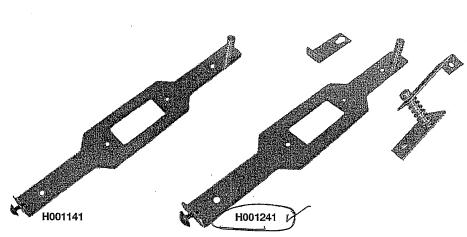


Tamper-Resistant Security Bracket

The Clock Experts

FEATURES

- Protects clocks from accidents and vandalism
- Indoor or outdoor use
- Heavy-duty 18 gauge galvanized steel construction
- · Kits include mounting hardware



ORDERING INFORMATION

| Part # | Description |
|---------|--|
| H001141 | Fits ATS 12" plastic case clocks |
| H001241 | Fits ATS 12" steel case clocks (instructions included) |

SPECIFICATIONS

H001141 Dimensions: 11.725"h x 2.125"w x 1.15"d .210 lbs. H001241 Dimensions: 13.5"h (with hanger extension) x 2.125"w x 1.15"d .240 lbs.

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