

Why Choose a Wireless Clock System from American Time?

A wireless clock system is made up of secondary clocks, which can be distributed throughout a building, facility, or campus, and a system controller (sometimes called a master clock) that maintains accurate time by obtaining a signal from the National Institute of Standards and Technology (or NIST) via Ethernet or GPS connection. Throughout the day, the system controller transmits the time over a radio signal to the secondary clocks, keeping the entire system synchronized.



- **Complete Coverage:** Facilities can achieve coverage using only one transmitter, with system controllers ranging from 5- to 30-watt output.
- **Convenient System Control:** Control your entire system from your computer with our Remote Connect web interface (requires Ethernet connection).
- **The Best of Both Worlds:** Facilities with existing wired clock systems can prepare for the future by using SiteSync IQ to manage the wired system. The system can then be updated or expanded with wireless clocks as budget and demand allows.
- **Design and Installation Assistance:** Install the system yourself or have a contractor do it for you. Either way, we're here for you. Call us for step-by-step guidance.

SiteSync IQ Wireless System and Clocks



Wireless clock systems receive a time signal from one of two different sources:

- Online time servers via **Ethernet**
- Signals from Global Positioning System (or **GPS**) satellites

System controllers transmit a radio signal with the correct time across a facility or campus to all of the clocks. Regardless of the clock location, it will receive a signal and synchronize with the system controller.

Ethernet synchronization provides time via connection to a Simple Network Time Protocol (SNTP) time server. Because this type of synchronization is maintained over a hardwired connection, Ethernet synchronization is the preferred method of installation and provides the most reliable service.

If the system controller is in a location without access to an Ethernet connection, GPS synchronization uses signals from GPS satellites to receive the wireless time signal. This provides greater flexibility in where the controller can be installed, but requires a receiver to be installed in a location with good satellite reception.

Both sources of synchronization reference the official U.S. standardized time established by NIST to ensure accurate time is maintained across the system.

Wired and Wireless Hybrid Clock System

"The hybrid idea was perfect for us. After some investigation, I realized we could keep our present clock system running and simply trade out the old system clocks gradually. Our hope is to replace every wired clock in the building (approximately 150) over the next two years.

As we replace more clocks, the time and energy spent in the past with clock adjustments, replacing batteries, etc. will evaporate. With this new hybrid system, I can make schedules at my computer and the controller automatically makes the adjustment for DST."

**Rick Heacock, Assistant Principal
Martinsville School District**



System Controllers



Benefits

- Easy to program and install system
- Cost savings because no wiring or conduit installation is required to operate battery clocks
- Most installations use the American Time shared FCC license
- Can synchronize other equipment like intercom systems, PC, or server to the wireless system
- Synchronized to NIST official time
- Remote Connect interface easily programs bells, buzzers and horns (requires Ethernet connection)
- Will operate existing 3-wire system clocks and wireless clocks
- Will operate both battery and electric wireless clocks
- Five-year warranty exclusive to American Time wireless system controllers

Considerations

- The system controller should be located high and central inside the building.
- AC power is required for system controller (and Ethernet access is preferred).
- Requires auxiliary power (surge protector with battery backup) to continue operating during power outage.
- Major building remodeling can affect the signal to the transmitter and the clocks.

Customizable Designs

American Time will add your logo or mascot to analog clocks free of charge with the purchase of 10 or more!

"There are certain things, like heart rate, respiration and the specific timing of different therapies where the second hand on the clock is critical. Our Emergency Department needed synchronized time, as did our patient rooms, surgery suites and dialysis areas. Any clocks in direct clinical care areas need perfectly synchronized time down to the second.

Every second counts in our entire hospital."

Russell Williams

VP of Professional Services

University of Minnesota Masonic Children's Hospital





Benefits

- Highly accurate synchronization across entire system (± 1 second)
- Automatic adjustment for Daylight Saving Time
- Battery-powered clocks can be placed in locations without access to power
- Unlimited quantity of clocks can use the time synchronization signal
- Electric clocks can use existing wired power and wireless time signal and will never need battery replacement
- Easy to move battery clocks from location to location
- Three-year warranty exclusive to American Time wireless clocks
- Available with an optional buzzer for signalling schedule changes

We're Here to Help

If you still have questions about which option will work best for your needs, an experienced clock expert can help you select the optimal timekeeping solution for your facility.

Call: **800-328-8996**

or Visit: **american-time.com**

Considerations

- Battery-operated clocks require battery replacement every 5 years with battery pack.
- Requires signal reception for synchronization of clocks (transmitter size is based on facility size).

"Wireless clocks with Battery Booster Packs operate for years without the need to change batteries.

It should be a good, long time before I ever have to touch the clocks again. Before we installed our new system, if a patient room didn't have a sync clock when a Daylight Saving Time change occurred, the nurses and patients would have to wait until Monday when the Engineering staff was back at work for the clocks to be corrected.

Both the wireless clocks and the PoE adjust automatically for Daylight Saving Time. That's one thing I love about all the synchronous clocks!"

Steve York
Director of Plant Operations
Wabash Hospital

Read more about Wabash Hospital at:

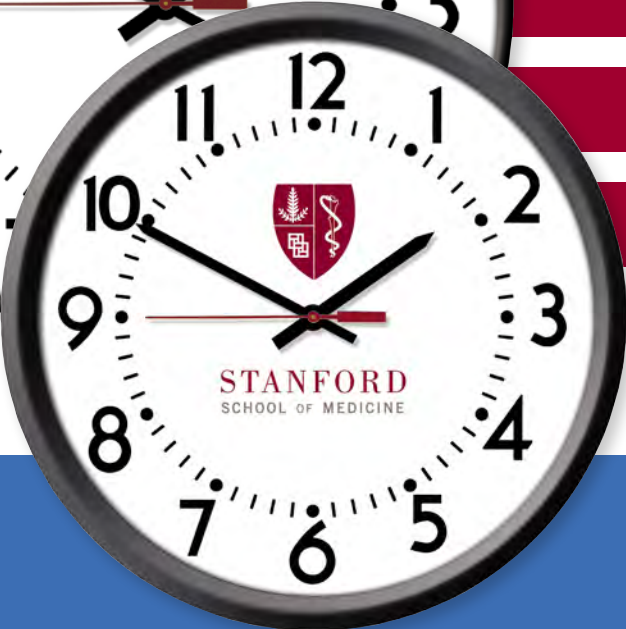
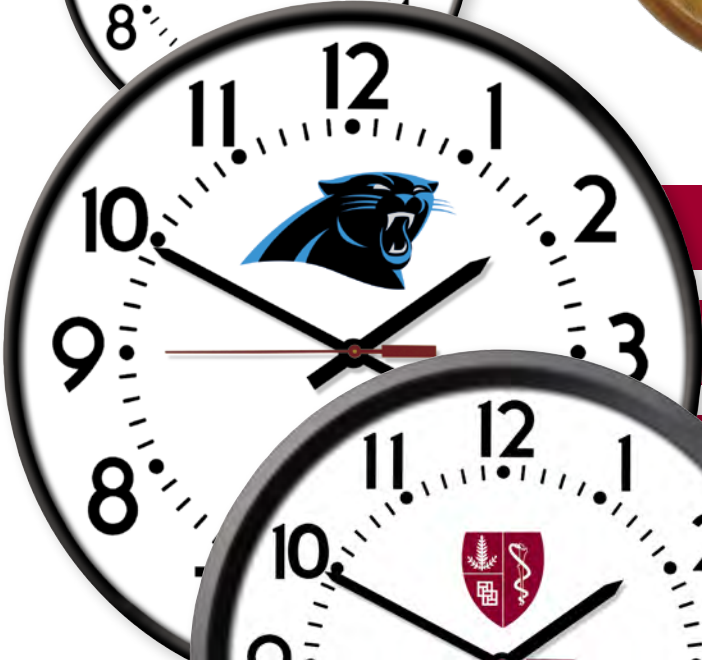
<https://www.american-time.com/resources/wabash-general-hospital-wireless-poe-clock-hybrid-case-study/>

Free Custom Logo Dials

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