

# Why Choose a Wired System and Wired Clocks from American Time?

A wired clock system consists of a master clock that supplies power to synchronize all the clocks linked together by wires. Synchronized wired clocks are accurate to  $\pm 1$  second to the master clock and get correction signals hourly and every 12 hours.



- **Control Time From Your Desk:** Remotely manage all your equipment from the convenience of any computer with an Internet connection.
- **Maintenance-Free Accuracy:** Perfectly synchronized time is visible on every clock in your facility. AllSync Plus wired clocks are accurate to  $\pm 1$  second to the master clock.
- **Plug and Play:** Changing your clocks is a snap because AllSync Plus clocks are shipped with our polarized, color-coded Molex plug.
- **Energy Saver:** AllSync Plus clocks consume up to 80% less energy than traditional mechanical clocks.
- **Guaranteed for Five Years:** Worry-free maintenance is guaranteed with our industry-leading five-year warranty. The AllSync Plus solid state movement is extremely reliable with fewer moving parts than mechanical movements.

## AC-powered AllSync IQ® Wired System and Clocks



A wired clock system includes a master time control unit with wires that run to each clock, creating a synchronized system. The master can be operated from its internal quartz timekeeper to an accuracy of  $\pm 1$  minute per year. This is a time-tested and proven method of supplying synchronized time throughout a building and has been used for decades.

Some masters are equipped to synchronize their time to NIST via GPS or Ethernet for very accurate time.

The system clocks typically require three wires for proper operation. One wire is neutral, one wire provides power to run the clock and the third wire supplies the correction signal. The hourly and twelve-hour correction keeps all the clocks synchronized to the master with an accuracy of  $\pm 1$  second. These systems are available as 120 or 24vac.

Master clock prices range from \$900 to \$1,000. Analog system clocks synchronized with the master range from \$100 to \$180 each. Digital system clocks range from \$190 to \$400.

### Wired Master Clocks

#### Pros

- Ability to very accurately synchronize time via GPS or Ethernet link to NIST ( $\pm 1$  second)
- Master time accuracy of  $\pm 1$  minute per year if not synchronized with GPS or Ethernet
- Optional scheduling capability for class change notification (bells), which can be controlled by the master
- Optional remote program scheduling capabilities from a PC on AllSync IQ wired masters
- Internal battery keeps all the programmed data in memory during a power outage

#### Cons

- Expense to link existing building to expansion projects to extend the wired system. Additional power boosters may be necessary
- Only can run a limited number of clocks without adding power boosters on 24vac
- Licensed electrician required for initial 120vac system installations
- Expense of conduit and wiring for the initial installation

**“ I am very impressed with the quality of your products and the support you provide them. We are starting to plan replacement clock systems for more schools in our district. ”**

**– Jon Hall, Director of Technology  
Pennsville School District, NJ**

## Wired Clocks



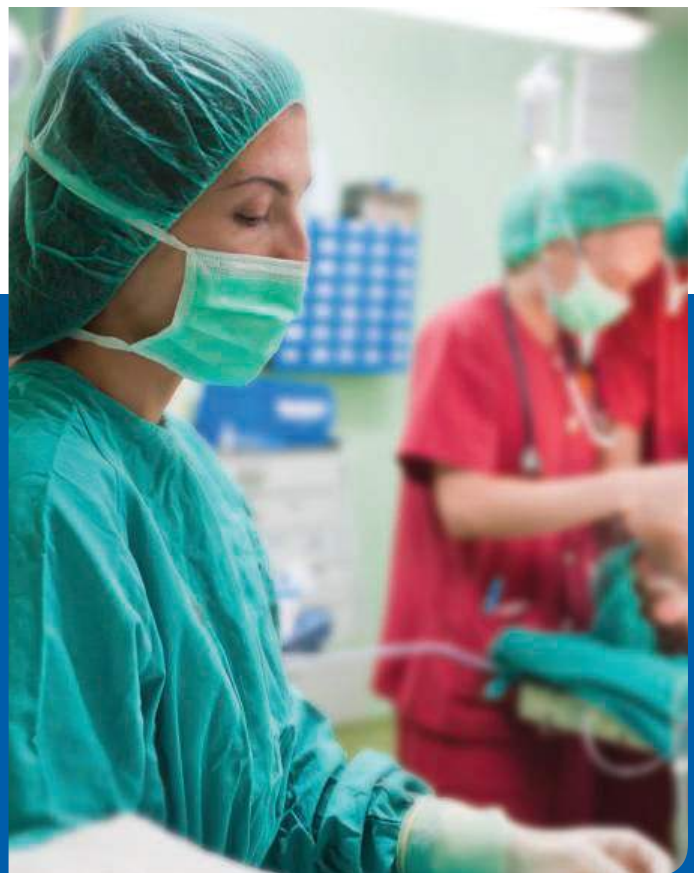
### Pros

- Wired to AC so clocks never require battery replacement
- Energy-efficient clock versions use very little power to allow for reduced overall power consumption
- Automatic time adjustment for Daylight Saving Time and power outages
- 1-hour and 12-hour correction signals provide very accurate time synchronization from master to clock to clock to clock ( $\pm 1$  second)
- 5 year warranty exclusive to American Time

### Cons

- Clocks stop during power outages and reset when power resumes (AllSync Plus clocks are available with battery backup to keep them running during a brief power outage)
- Difficult to move or add new clock locations because AC power is required for each clock
- Limited clock locations due to AC power accessibility

**“ The guys in maintenance were practically doing back flips knowing they would have accurate clocks. Before the upgrade to our synchronized clock system, we spent at least \$10,000 on clock maintenance, labor and repair every year. Without even including the billing accuracy piece, our synchronized clock system easily paid for itself within the first two years. ”**



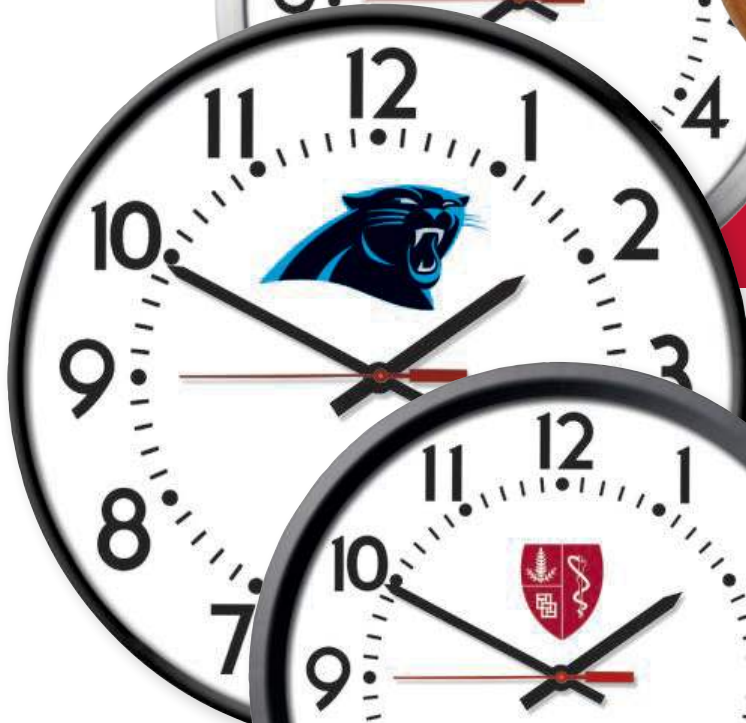
**– Terry Anding, Maintenance Manager  
Essentia Health Systems**

# Free Custom Logo Dials



Just think about how many times a day you glance at the wall clocks around you. Now you can make the most of those highly visible locations and reinforce your brand with free custom logo dials.

We'll customize your clock dials with your logo, department name, mascot or message of choice – **absolutely free**. The dials may be custom, and our clocks are American made and built to last.



*Custom Logo Dials*

*Lasts for Years*

*Never Fades*

*Brand Awareness*

