

## **How the GPS Wireless System Works**

**This revolutionary, synchronized timekeeping system is so easy to use.**

**The GPS Receiver captures a time signal from the U.S. government's global positioning system (GPS) satellites and sends it to the Transmitter. The Transmitter then broadcasts the time to every Primex Wireless clock in your facility. The result? All of the clocks are synchronized to the exact second!**

## Frequently Asked Questions

### **Q: Why should I purchase a Primex Wireless clock system?**

A: Primex Wireless is the trusted leader in the manufacture and distribution of wireless clock systems. With the proven success of the GPS Wireless Clock System, the company has set the standard for technological innovation. Primex Wireless was launched specifically to help schools, businesses and institutions improve productivity through accurate timekeeping.

### **Q: How is this new system unique?**

A: This FCC-approved system is designed and field-tested by Primex Wireless and is guaranteed to be secure and reliable.

### **Q: Why is this time system so accurate?**

A: Passing GPS satellites send time signals, accurate to the second, to the GPS receiver, which in turn sends signals to the transmitter. The signal is rebroadcast to all clocks in the system using an FCC or Industry Canada licensed FM radio signal. As a result, all system clocks are always synchronized to the second.

### **Q: What is the quality of the various components?**

A: All components of the Primex Wireless System meet high-quality industry standards and have undergone rigorous field-testing.

### **Q: Is the system easy to install?**

A: Yes. There is no expensive time- and labor-consuming hardware required. The GPS receiver is easily mounted on a roof or window, and is connected with a cable to the transmitter. Time signals are then sent wirelessly from the transmitter to the system clocks. And since the entire system is wireless, it can easily be moved to another location or a new facility in the future.

### **Q: How do the cost savings compare to hard-wired clock systems?**

A: To install a hard-wired synchronized clock system in an average size (80,000- to 150,000-square-foot) building your total cost will be \$20,000 to \$25,000. It will cost approximately \$10,000 to wire the building, plus \$10,000 to \$15,000 for the system itself (assuming there are 50 clocks). With the Primex Wireless System you eliminate this costly wiring and all future wire-related problems.

**Q: Why is the Primex Wireless System so reliable?**

A: The system operates continuously, around the clock, every day of the year. The GPS receiver is always collecting and sending information to the transmitter. The transmitter continuously sends the correct time to the system clocks. The system clocks compare the received signals to the time displayed and make changes as needed. Maintenance-free for five years, the system clocks also change automatically for Daylight Saving Time (there's an optional switch to disable this feature in areas where DST is not observed).

**Q: What happens when the power goes out?**

A: If a power outage occurs, the system clocks continue to display highly accurate time. The transmitter data is stored in non-volatile memory at the onset of a power outage. Upon resumption of power, the transmitter receives the correct time from the GPS receiver, corrects any internal data and sends the updated exact time to the system clocks. In this way, power outages of normal duration have no significant impact on the operational accuracy of the Primex Wireless System.

**Q: How does the system know to change time for Daylight Saving Time (DST)?**

A: The non-volatile memory in the transmitter stores the date and time for the DST changes. On that day, the transmitter sends a signal to the satellite clock that adjusts the clock for DST. This feature can be disabled in areas where DST is not observed.

**Q: Does the system come complete?**

A: The system includes a GPS receiver, transmitter, antenna, and power cord. system clocks are available in many colors, styles and sizes, including custom logo designs. An unlimited number of system clocks can be purchased to run off the system.

**Q: What is the Clock Lock?**

A: Many of our customers are concerned about theft or damage to their system clocks. The Clock Lock feature locks the clock in place, making it difficult to move. If the customer chooses not to use the Clock Lock, directions are provided in the operation manual on how to disable this feature. Available on all single-sided Traditional Series Clocks.

**Q: How often do you need to change the batteries in the system clocks?**

A: The only batteries in the system are in the system clocks. The batteries will last slightly longer than five years; however, it is strongly recommended that batteries be changed every five years on a predictable maintenance schedule.