

Sapling Master Clocks and Building Management Systems (BMS)

A Building Management System (BMS) is a computer-based control system used to manage and monitor mechanical and electrical equipment in a building, such as lighting, fire systems, and security systems. The system administrator can control and monitor all Sapling Master Clocks via the built-in web interface and receive e-mail alerts when certain failures occur. In addition, some Sapling Master Clocks have the capabilities to interface with a BMS through a contact closure.

Built-In Web Interface and E-Mail Alerts

The system administrator can control and monitor the settings of any Sapling Master Clock through the built-in web interface from any computer on the same network. As standard, all Sapling Master Clocks have the capability to send e-mail alerts to notify the system administrator if any of the following events occur:

- If there is a communication failure with the accurate time source.
- If the master clock restarts, such as after a power failure.

Sapling Master Clocks Interfacing with BMS

All Sapling Master Clocks have the capability to interface with a BMS. This will be done utilizing the Once a Minute Pulse output that each master clock is capable of providing. There are two ways to utilize this feature, the system administrator can access the Master Clock's built-in web interface or by utilizing the buttons on the front of the master clock. The user will then need to set the clock correction relay to Once a Minute Pulse and the duration will need to be set for 60 seconds. Then, the wiring will need to be connected to the normally-closed and common contacts of the relay.



In the event that the master clock loses power, the relay will be turned off, therefore notifying the BMS that master clock has powered down. Once the master clock regains power, the relay will be activated again notifying the BMS that the master clock has received power once more.

All Sapling Master Clocks are capable of performing self-diagnostics and have the ability to send e-mail alerts to the system administrator, providing an easy way to monitor the master clock without actually interfacing with a BMS.

For more information, please contact your dedicated Sapling representative.

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