sapling
Synchronized Clock Systems

SMM 3000 Series Master Clock

The Master Clock shall be the Sapling SMM 3000 Series. The master clock shall have an LED display, as well as a backlit, two row by twenty character LCD display. It shall also have a 16 button rubber tactile keypad next to the displays that shall allow a user to program the master clock. The master clock shall have up to ten pre-programmed NTP servers which will be accessible for modification over a network interface. The master clock shall be capable of translating a wired synchronization signal into Sapling's wireless signal and shall include a 2.4GHz transmitter. It will broadcast the wireless data signal to Sapling SDLG, SALG and SBLG clocks utilizing frequency–hopping technology. The master clock shall contain two clock circuits that have the capability to run synchronous wire systems such as 59-minute correction, 58-minute correction, National Time/Rauland or a once a day pulse for intercom systems. The SMM Master Clock shall interface with the SMI Master Input Box via RS485 communication protocol to receive triggered message commands. The master clock shall be powered by 115VAC/60 Hz or 230VAC/50 Hz. The master clock shall contain the necessary circuitry and programs so that a typical web browser, like Internet Explorer, can access the clock over a local area network. When accessed this way, the clock settings can be modified through a graphic user interface. The interface shall allow the user to program all of the display features for secondary clocks, the IP settings of the master clock, and any system setting that the master clock has.

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