SMA 3000 Series Master Clock

The Master Clock shall be the Sapling SMA 3000 Series. The master clock shall have a LED display, as well as a backlit, two row by twenty character LCD display. The master clock shall have the capability of receiving time from any SNTP (Simple Network Time Protocol) server. The master clock shall have up to ten pre-programmed SNTP addresses in case the clock does not receive its time from one of the servers, a backup is in place. The master clock will be capable of receiving signals from all Sapling Master Clocks via RS485, as well as 59 minute correction, 58 minute correction, National Time and Rauland, and Dukane. The master clock shall have the capability of running a wired system and/or wireless system (with transmitter option). 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 master clock shall be programmed via the 16 button rubber tactile keypad. The master clock shall be powered by 110VAC/60 Hz or 220VAC/50 Hz. The master clock is pending FCC approval.

SMA 3000 upgrade options

Transmitter Option - The transmitter shall be capable of transmitting data to the SAL wireless analog clock and the SBL wireless digital clock. The master clock shall be capable of receiving a signal from any SNTP time server via the Internet. The transmitter shall utilize 915–928 MHz frequency–hopping technology. The master clock shall be capable of acting as a repeater while receiving a signal wired or wirelessly from the main master clock.

Optional Relays (zones) - The master clock shall be capable of utilizing four or eight zones that can be used for bell scheduling, lights, etc. The zones shall be capable of being programmed via the 16 button rubber tactile keypad and LCD display or from the web interface upgrade.

GPS – The master clock shall have the option of having a GPS receiver built into the unit for synchronization from the satellites via UTC. The antenna shall be roof mounted using the supplied 75 foot cable.

Web Interface – The master clock shall be able to be programmed completely from a web interface that can be accessed through any typical web browser such as Microsoft Internet Explorer or Mozilla FireFox. The interface shall allow the user to program all bell schedules, events, display features, IP settings of the master clock and any system setting that the master clock has.

SNTP Server – The master clock shall have the capability to act as a SNTP server that other devices can point to in order to receive the time through SNTP protocol.

Countdown for Digital Clocks – The master clock shall be able to set the countdown time between events and have the digital clocks countdown (ex. Time will count down between classes in schools or breaks in a factory)

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