sapling
Synchronized Clock Systems

SAM Series Analog Clock

The secondary clock shall be a Sapling SAM Series clock. It shall be an analog clock with a black hour hand, a black minute hand, and a red second hand. The clock shall receive time from a Master Clock using one (and only one) of the following communication formats: Sapling's 2-Wire Communication protocol, 59-minute correction, 58-minute correction, and National Time and Rauland. It shall be programmed by the manufacturer to automatically detect and accept time from any of the previously mentioned communication protocols. The clock shall have a microprocessor-based movement that shall require fewer than 5 minutes to perform a correction of the hand positions. The clock shall include an executable method for automatic hand calibration, as well as a diagnostic function that allows the user to view the last time the clock received a correction signal, the performance and results of a gearbox test, and a comprehensive analysis of the entire clock movement. The clock will be powered using one (and only one) of the following input voltage levels: 24V, 115V, or 230V. The clock shall have a smooth surface ABS case or metal case which can be attached to a standard-sized gang box. The round ABS versions of the case shall be designed such that they will fit within Sapling's wood or aluminum round clock housings. The clock case shall be produced in round cases with diameters of 9, 12, or 16 inches, or square cases with widths of 9 or 12 inches. The dial is to be made of durable polystyrene material. The crystal is to be made of shatterproof, side molded polycarbonate. The clock shall be UL, cUL, and CE compliant.

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