

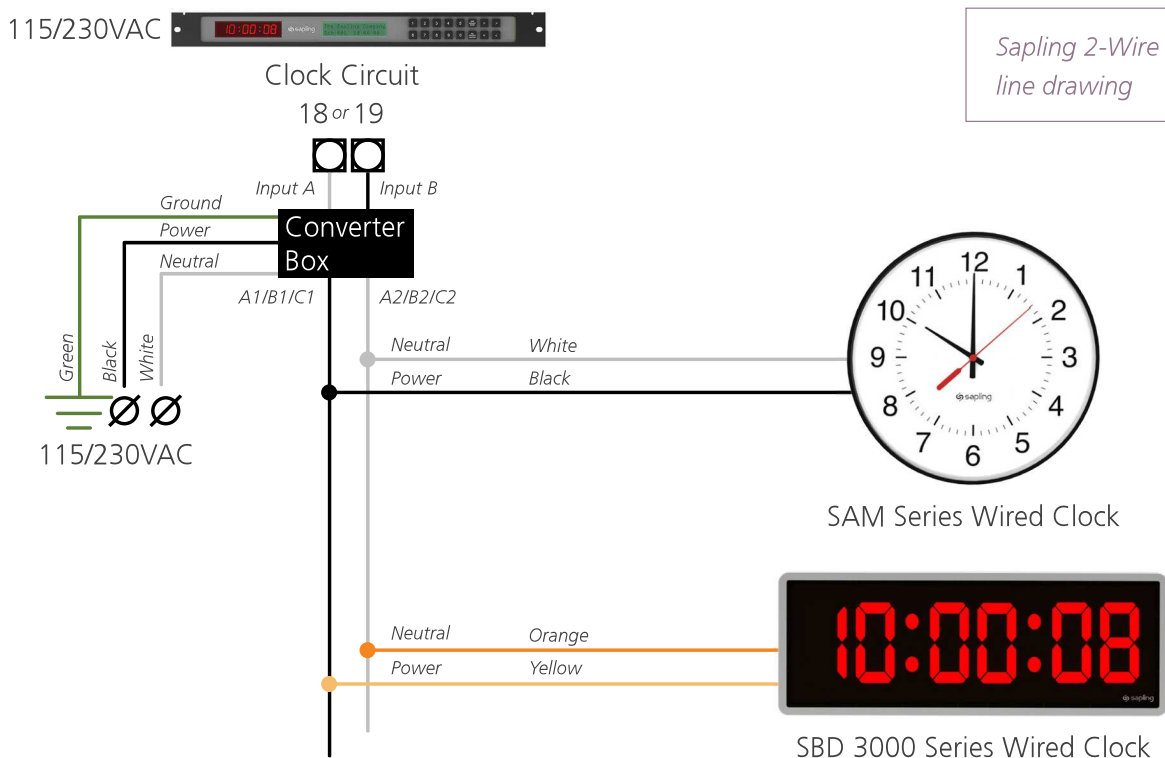
Sapling 2-Wire System

DESCRIPTION

The Sapling 2-Wire System is one of the most innovative and advanced wired systems in the synchronized time industry. It starts with the SMA Series Master Clock sending time data to a Converter Box. The Converter Box is powered locally at 110-240VAC and has two functions: it reduces the voltage to provide 24 volt power to the secondary clocks, and it sends the time data every second over the same pair of electrical wires.

Sophisticated in design and functionality, the system is simple to install and involves no regular maintenance. Both analog and digital clocks may be installed on the same run. Since there is no limit to the number of Converter Boxes that can be added to the system, the Sapling 2-Wire Clock System can serve anything from a small facility with 20 clocks to mega projects with 5,000 clocks or more.

The Sapling Master Clock can provide time data to a 2-Wire System and most third-party sync-wired systems **simultaneously**, allowing a seamless upgrade or transition to the cutting-edge Sapling solution.



Sapling 2-Wire System Advantages



Instant Correction - Once-a-second correction signal ensures that the 2-Wire System is always on time.



Power and Data on the Same Wires - The system integrates the power and time data on the same two electrical wires, eliminating the need for a third wire and saving time during installation.



Low Voltage - Since the clocks are powered by 24V, in most countries there is no need for a certified electrician to install the clocks or follow strict high voltage wiring regulations.



Worry-Free Installation - Clocks feature a unique automatic polarity detection feature, allowing the clock to correct itself if wiring errors occur during installation. Even if the wires are installed incorrectly, the clock will automatically detect the wrong polarity and reverse it, allowing the clock to function properly.



Reliability - The Sapling 2-Wire System is designed to run in parallel and does not rely on getting power or data from any other clock. If one clock has a problem, only that single clock will have the issue and all other clocks in the system will still continue to operate normally.

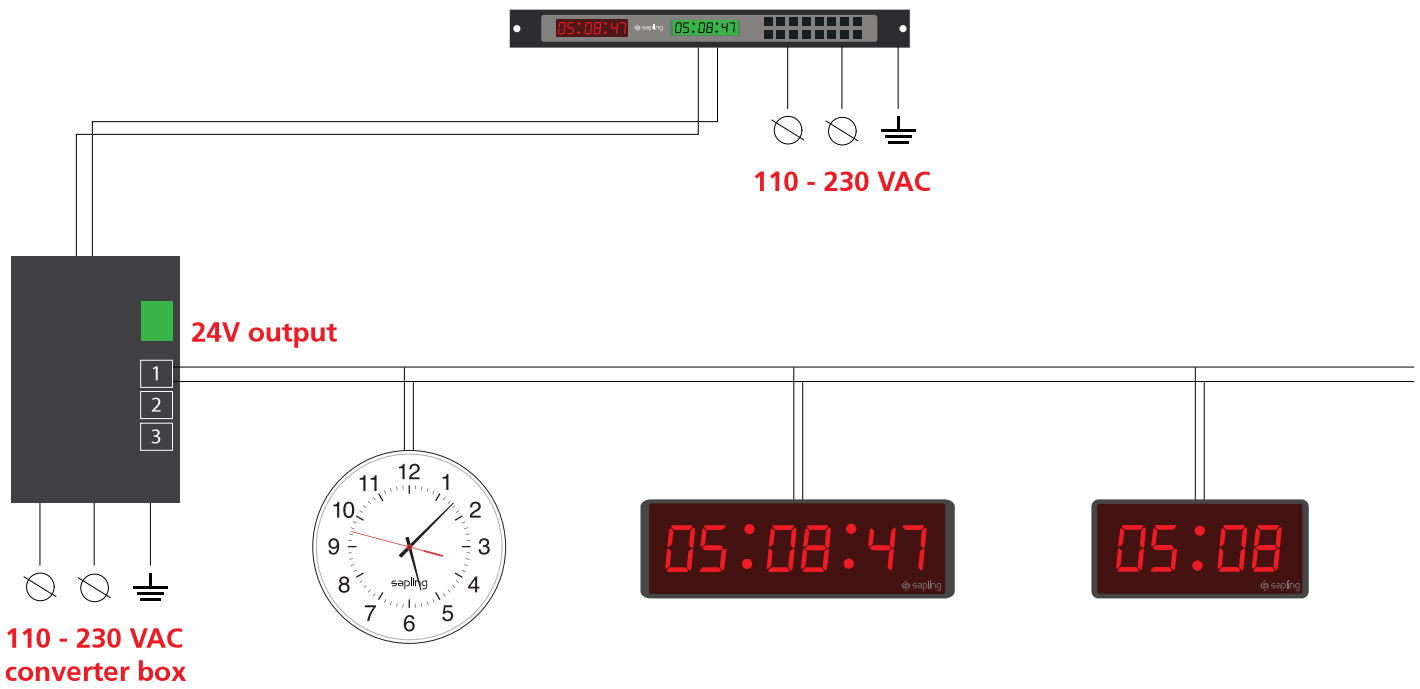


Safety Standard Compliance - Sapling Master Clocks, the Converter Box, and secondary clocks are designed to meet strict international safety standards and are (c)UL listed.



Advanced Master Clock - The Sapling Master Clock comes with a built-in web interface to allow easy access and easy setup from any computer in the facility via LAN.

2-Wire System - One Run Line Drawing



2-Wire System - Multiple Runs Line Drawing

