



Commanding Two Clocks with One Elapsed Timer Control Panel

Sapling offers the 3200/3300 Digital Clock models, which are capable of interfacing with an Elapsed Timer Control Panel. The Elapsed Timer Control Panel is designed to interface and communicate with one digital clock (3200/3300 model).

Some applications require the Elapsed Timer Control Panel to command more than one digital clock to count up or down. Sapling offers a solution for these applications, but the wiring for this arrangement is different from the standard settings.

The Elapsed Timer Control Panel utilizes four wires: two for power (the elapsed timer receives power from the clock), a third wire for sending data, and a fourth wire for receiving data. The "Elapsed Timer Transmit" wire informs the digital clock which button has been pressed, while the "Elapsed Timer Receive" wire accepts information from the digital clock about LED color changes. Furthermore, the "Elapsed Timer Receive" wire should only be connected to one clock, which should be the same clock that powers the Elapsed Timer Control Panel. This leaves the "Elapsed Timer Transmit" wire, which must be connected to both clocks. In the proposed solution, the "Elapsed Timer Transmit" wire is split and connected to both digital clocks, while the "Elapsed Timer Receive" wire is attached to whichever digital clock is closest to the Elapsed Timer Control Panel. If a user has programmed both clocks to respond to the Elapsed Timer Control Panel the same way, then any button pressed on the control panel will produce the same result on both clocks. In this configuration, either clock must be placed within 50 feet (15.24 meters) of the Elapsed Timer Control Panel.

Please review the image below for an example of the proposed configuration. More information about the capabilities of Sapling's Digital Clocks and Elapsed Timer Control Panel may be found in the clock manuals. Please view the Elapsed Timer video clips [here](#).

