

### **SBP 3300 Series Digital Clock**

The secondary clock shall be a Sapling SBP 3300 IP digital clock. It shall have a high-efficiency LED numeral display with digits measuring either 2.5" or 4.0" high. The clock shall be available in both four (4) and six (6) digits. The clock shall have data LEDs on the circuitry board that light up when the clock receives data. The clock shall receive time data from an NTP or SNTP server or a Sapling SMA Series Master Clock. Time data shall be transmitted and received by the clock via Sapling's IP communication protocol, which shall be delivered to the clock through a CAT5, CAT5e, CAT6, or CAT6A cable. The clock settings shall be adjustable through a Web Interface that can be accessed by a web browser, such as Internet Explorer. Settings for the clock shall include Daylight Saving Time, Network Settings, and a list of up to 10 NTP sources. The clock will be powered using Power-over-Ethernet (PoE). The clock shall have circuit components which allow it to interface with any one (and only one) of the following accessories: the Sapling Elapsed Timer Control Panel or Sapling's Temperature Sensor. Additionally, it shall have relays which allow it to accept other wired time protocols such as 59-minute correction, 58-minute correction, National Time and Rauland, Midnight Reset, and Dukane. The clock shall have a smooth surface ABS case which can be attached to a standard-sized gang box. No external screws shall be visible on the bezel or clock housing. The digital clock housing shall be designed and molded so that it can be attached to a Sapling double-mount pole. It shall be capable of displaying time in a 12 or 24 hour display format. The display shall use either red, green, white, or amber LEDs, depending on the type of display that was ordered. The clock will have four (4) levels of adjustable brightness. When the input is lost, the colon on the display of the clock shall flash. When power is lost, the clock will rely on a small battery and quartz timer to keep track of (but not display) the time. The clock shall be able to interface with Sapling's Buzzer accessory. The clock shall be UL and cUL listed.