



# SAPLING

## WIRED SYSTEM

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# SAM Analog

Sapling Wired Analog Clocks incorporate multi-functional software, as well as a microprocessor based movement and a real-time internal clock. The clocks include automatic calibration and time protocol detection, as well as enhanced diagnostic functionalities such as reset, sync now, find hands, and more.

## FEATURES

- Available in Round or Square Shape
  - Round Clocks are available in: 9", 12", and 16" dial sizes
  - Square Clocks are available in: 9" and 12" dial sizes
- Offered in a low-profile metal or SlimLine ABS case
  - Optional Cherry Wood finish or Brushed Aluminum finish for round clocks
- Offered in 24/110VAC, 230VAC, and 24VAC/VDC models
- Provided with mounting hardware for easy installation
- Hour, minute, and second hands
- Quick correction for time change (max. 5 minutes minutes when used with digital communication protocol)
- Microprocessor based movement
- Side molded, polycarbonate crystal

## HIGHLIGHTS

- Automatically recognizes many wired time data protocols:
  - 2-wire digital communication system (24V clock only)
  - 3-wire digital communication system
  - Sync-wire 59 minute correction
  - Various sync-wire 58 minute corrections
  - National Time/Rauland correction
- Correctly interprets time data protocols even if the signal wire polarity is switched
- Built-in self-diagnostic mode:
  - Communication Protocol Verification
  - Time since the last synchronization signal was received
  - Hand position error detection
- Custom Color Cases available (minimum order quantity 25)
- Designed and Produced by Sapling in Pennsylvania, United States of America

# SBD Digital

Sapling Wired Digital Clocks are available with a bright red, white, green, or amber display. They incorporate microprocessor based functionality and an integrated real-time clock. All clocks feature an elegant and stylish design and are offered in different sizes with four (00:00) or six (00:00:00) digits.

## FEATURES

- Available with 2.5" (6.35 cm) digits or 4.0" (10.16 cm) digits; 4 digit display or 6 digit display
- Red display standard; optional White, Green, or Amber displays
- Adjustable bright LED display (high, medium, low, off)
- 12 or 24 hour display
- Multiple power options
  - SBD 3100 offered at 24V only
  - SBD 3200 & 3300 offered at 24V, 110VAC, 230VAC
- Provided with mounting hardware for easy installation
- Immediate correction for time change when used with 2-Wire Digital Communication or RS485 input
- Microprocessor based clock
- Three models (3100, 3200, and 3300) with additional capabilities for higher models
- SBD 3100 supports 2-Wire Digital Communication Time Protocol (higher models support additional protocols)

## HIGHLIGHTS

- Programmable brightness levels
- Ten year battery backup for internal real-time clock and clock settings
- The clock features time loss notification by flashing the colon
- "BELL" and "FirE" messaging capabilities
- Capable of receiving pre-scheduled countdown command from the SMA Master Clock (optional SMA function)
- Analog and digital clocks can be mixed on the same line
- Alternating time/date display in U.S. format (MM:DD:YY)
- Designed and Produced by Sapling Inc. in Pennsylvania, United States of America

## ADDITIONAL 3200 MODEL HIGHLIGHTS

- Includes all of the SBD 3100 model's capabilities
- Capable of interfacing with:
  - Sapling's Elapsed Timer Control Panel (SBD-ELT-001-0)
  - Temperature Sensor (SBD-TEMP-000-0)
  - USB Programming Cable (D-USB485-INTF-1) for additional settings
- Alternating time/date display in international date format (DD:MM:YY) set using USB Programming Cable
- Brightness scheduling capabilities when using USB Programming Cable
- Can receive Sapling RS485 protocol

## ADDITIONAL 3300 MODEL HIGHLIGHTS

- Includes all of the SBD 3100 and 3200 models' capabilities
- Easy programming with two front push buttons
- Can interface with a third party system via a contact closure such as nurse call system that can automatically trigger the elapsed timer
- Can interface with a Sapling Buzzer accessory (A-BUZZ-3300-1) when the Sapling Elapsed Timer reaches 00:00:00
- Can interface with 3 wire sync protocols
- Supports 59 minute, various 58 minute, and National Time/Rauland sync-wire inputs and Once A Day closure (in addition to Sapling RS485 Time Protocol input and output and 2-Wire Digital Communication Time Protocol)
- Capable of acting as a standalone mini-master clock

