

## SMA 6000 Series TalkBack Master Clock (V4.2)

### Features

- Wireless transmitter for correction of Sapling SAT(G) Series TalkBack Wireless Analog Clocks or SBT(G) Series TalkBack Wireless Digital Clocks
- Available in Rack or Wall Mount designs
- LED display for a clear, accurate readout
- Two line, backlit LCD display with 20 characters per line
- 2x8 rubber push button keypad for easy on-site programming
- Automatic bi-annual Daylight Saving Time changes (if applicable)
- Capable of interfacing and providing time data to third-party clock systems
  - Supports 59 minute correction, 58 minute correction, National Time/Rauland, Rauland Digital
  - Dukane Digital, input only
- Bias seconds output
  - Adjust the time plus or minus a few seconds or minutes to fit your application
- RS485 input and output for time correction and synchronization
- 12 or 24 Hour Mode
- Microprocessor based



### Highlights

- Equipped with Sapling's TalkBack Technology
  - Two-way communication between the master clock and secondary clocks
  - Master clock receives vital information from each clock in the system such as battery life, signal strength, mechanical/display status, and more.
- Built-in web interface – Each master clock has a built-in web interface allowing the user to program, control, and monitor the master clock from any computer connected to the same LAN without the need for additional software
  - Settings include: TalkBack Technology, network settings, Scheduling for Programmable Relays (if applicable), NTP server selection, Email alerts, UTC/GMT offset selection, automatic Daylight Saving Time adjustments, and more!
- All versions of the clock receive accurate time from one of ten pre-programmed third party NTP servers (user changeable) for maximum reliability and redundancy. Alternatively, the master clock can be set to receive the time data from an in-house NTP server or via an optional GPS receiver.

specification sheets may change without prior notice

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- Email alerts for:
  - Secondary Clock Mechanical/Display Issues
  - Secondary Clock Not Communicating
  - NTP Synchronization Timeouts
  - Power Resets
  - GPS Synchronization Timeouts (if applicable)
  - And more!
- Ten year battery backup for internal timekeeping and settings

### Additional Optional Features

- Four or eight programmable relays (zones)
  - 800 event capacity
  - 255 pre-programmed schedule changes
  - Two (2) programmable signal durations per circuit
- GPS receiver
- (S)NTP Server
  - With the (S)NTP server upgrade, the Sapling SMA Master Clock can be used as an (S)NTP server to provide (S)NTP time to any IP device capable of receiving it
- Countdown feature
  - The master clock will send a countdown command to all SBD and SBL(G) series digital clocks in the system for a preset amount of time

### Specifications

**Housing:**

Smooth surface metal case

**Color:**

Black

**Mounting:**

Wall Mount or Rack Mount

**Display:**

0.56" (1.42 cm) LED display

**Calendar:**

Built-in calendar with leap years

**Housing Dimensions (LxWxD):**

11.0" x 17.5" x 1.75"

(27.94 cm x 44.45 cm x 4.45 cm)

**Weight:**

6.5 lbs. (2.95 kg)

**Time Base:**

Crystal

**Memory:**

Non-volatile EEPROM

**Temperature Range:**

Operating: 32°F - 113°F (0°C - 45°C)

Shelf: 5°F - 167°F (-15°C - 75°C)

**Voltage Input:**

85 VAC – 264 VAC, 50/60 Hz

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## SMA 6000 Series TalkBack Master Clock (V4.2)

**Current Consumption:**

0.2A at 120V and 0.1A at 230V

**Power Consumption:**

20 Watts

**Inputs:**

(S)NTP, RS485, 59 minute correction, 58 minute correction, National Time and Rauland, Rauland digital, Dukane digital, Once a Day Pulse, GPS (optional)

**Outputs:**

TalkBack Wireless Communication, RS485, 2 clock circuits, Once a Day Pulse, (S)NTP (optional)

**Input Sensitivity:**

-112 dBm

**RF Signal Output:**

30 dBm (1 watt)

**Transmission Frequency:**

Either 900 MHz or 2.4 GHz frequency-hopping technology

**Includes:**

- 1 – 6 foot (1.82 m) power cord
- 1 – Wall Mount Kit (Wall Mount only)
- 1 – Remote Antenna (Rack Mount only)
- 1 – 75 foot (22.86 m) GPS cable (with GPS option; longer cables available)
- 1 – Dome Antenna (with GPS option)

**Ethernet Speed:**

10/100 Mbps Full Duplex

**Ethernet Port:**

RJ45

**Compliance:**

UL and cUL listed  
 FCC part 15 B “class B digital devices”  
 CE Compliances: EMC, LVD

**Options – Programmable Relays/Zones**

**Auxiliary Zones:**

4 or 8 zones optional

**Contact Rating:**

115 VAC – 8 amps  
 230 VAC – 5 amps

**Signal Duration:**

2 customizable durations per programmable relay,  
 1 – 9999 seconds or on/off

**Options – GPS**

**GPS Antenna:**

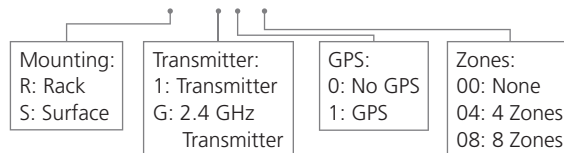
Bullet shaped active antenna that mounts to ¾” conduit (please refer to Sapling’s GPS Mounting Kit Spec Sheet)

**Antenna Dimensions:**

Diameter: 3.04” (7.72 cm)  
 Height: 2.94” (7.47 cm)

**Ordering Information:**

SMA 6000 Series Master Clock: SMA-6X0-XXXX-1



SMA 6000 Series Software Upgrade to (S)NTP Server: SMA-000-SERV-0  
 Countdown Feature (for digital clocks with relays): SMA-000-CDOW-0

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