

SMA 3000 Series Master Clock (V7.7)

Features

- 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

- 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: 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.
- Email alerts for:
 - NTP Synchronization Timeouts
 - Power Resets
 - GPS Synchronization Timeouts (if applicable)
- Ten year battery backup for internal real-time clock timekeeping.



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Additional Optional Features

- Four or eight programmable relays (zones)
 - 800 event capacity
 - 255 pre-programmed schedule changes
 - Two programmable signal durations per circuit
- GPS receiver
- Transmitter for correction of Sapling SAL(G) Series Wireless Analog Clocks or SBL(G) Series Wireless Digital Clocks
- (S)NTP Server
 - With the (S)NTP server upgrade, the Sapling SMA Master Clock can be used as an (S)NTP server and provide (S)NTP time to any device capable of receiving it
- Prescheduled Countdown feature for supported clock systems (2-Wire, Wireless, and TalkBack)
 - 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

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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 EERPROM

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

Current Consumption:

0.2A at 120V and 0.1A at 230V

Power Consumption:

20 Watts

Inputs:

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



Synchronized Clock Systems

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Outputs:

RS485, 59 minute correction, various 58 minute corrections, National Time and Rauland, Rauland Digital, Once a Day Pulse, Once an Hour Pulse, Once a Minute Pulse

Includes:

1 – 6 foot (1.82 m) power cord

1 – Wall Mount Kit (Wall Mount only)

1 – Remote Antenna

(Rack Mount and transmitter option 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"

Options – Programmable Relays/Zones

Auxiliary Zones:

4 or 8 zones optional

Contact Relay Rating:

115 VAC – 8 amps Max

230 VAC – 5 amps Max

Signal Duration:

2 customizable durations per programmable relay,

1 – 9999 seconds or on/off

Options – Transmitter

Input Sensitivity:

-112 dBm

RF Signal Output:

30 dBm (1 watt)

Transmission Frequency:

Either 900 MHz or 2.4 GHz frequency-hopping technology

Options - GPS

GPS Antenna:

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

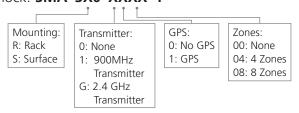
Antenna Dimensions:

Diameter: 3.04" (7.72 cm)

Height: 2.94" (7.47 cm)

Ordering Information:

SMA 3000 Series Master Clock: SMA-3X0-XXXX-1



SMA 3000 Series Software Upgrade to (S)NTP Server: **SMA-000-SERV-0**

Prescheduled Countdown Feature*: **SMA-000-CDOW-0**

*Compatible when using digital secondary clocks for prescheduled countdowns in a Sapling 2-Wire, Wireless, or TalkBack System.