SMA 2000 Series Master Clock (V8.1)

Features

- Available in Rack or Wall Mount designs
- LED display for a clear, accurate readout
- 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, 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)
 - And more!
- Ten year battery backup for internal timekeeping and settings



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Synchronized Clock Systems

SMA 2000 Series Master Clock (V8.1)

Additional Optional Features

- GPS receiver
- Transmitter for correction of Sapling SAL(G) Series Wireless Analog Clocks or SBL(G) Series Wireless Digital Clocks

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Synchronized Clock Systems

- (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

Specifications

Housing: **Power Consumption:** Smooth surface metal case 20 Watts Color: Inputs: Black RS485, 59 minute correction, 58 minute correction, National Time and Rauland, Rauland digital, Dukane Mounting: digital, Once a Day Pulse, GPS (optional), (S)NTP, Wall Mount or Rack Mount Wireless Repeater (optional) **Display:** Outputs: 0.56" (1.42 cm) LED display RS485, 2 clock circuits, Once a Day Pulse, Calendar: Wireless Communication (optional), (S)NTP (optional) Built-in calendar with leap years Includes: Housing Dimensions (LxWxD): 1 - 6 foot (1.82 m) power cord 11.0" x 17.5" x 1.75" 1 – Wall Mount Kit (Wall Mount only) (27.94 cm x 44.45 cm x 4.45 cm) 1 – Remote Antenna Weight: (Rack Mount and transmitter option only) 6.5 lbs. (2.95 kg) 1 – 75 foot (22.86 m) GPS cable Time Base: (with GPS option; longer cables available) Crystal 1 – Dome Antenna (with GPS option) Memory: **Ethernet Speed:** Non-volatile EERPROM 10/100 Mbps Full Duplex **Temperature Range: Ethernet Port:** Operating: 32°F - 113°F (0°C - 45°C) RJ45 Shelf: 5°F - 167°F (-15°C - 75°C) **Compliance:** Voltage Input: UL and cUL listed 85 VAC - 264 VAC, 50/60 Hz FCC part 15 B "class B digital devices" **Current Consumption:** CE Compliances: EMC, LVD 0.2A at 120V and 0.1A at 230V specification sheets may change without prior notice

Synchronized Clock Systems

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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)

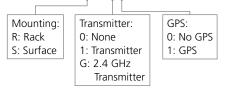
Antenna Dimensions:

Diameter: 3.04" (7.72 cm)

Height: 2.94" (7.47 cm)

Ordering Information:

SMA 2000 Series Master Clock: SMA-2X0-XX00-1



SMA 2000 Series Software Upgrade to (S)NTP Server: SMA-000-SERV-0