SMA 3000 Series Master Clock (V7)

Features:

- LED display for a clear, accurate readout
- Two line, backlit LCD display with 20 characters per line
- Improved 2x8 rubber pushbutton keyboard
- (S)NTP Input Capability
    - Up to 10 server addresses can be pre-programmed into the unit for continuous, accurate synchronization
    - DHCP Capable
- Interfaces with other systems
    - Interfaces with 59 and 58 minute correction, National Time and Rauland, as well as Dukane digital
- 12 or 24 hour mode
- Automatic bi–annual Daylight Saving Time changes (when used as a primary master clock)
- Bias seconds output
    - Adjust the time plus or minus a few seconds or minutes to fit your application, while still receiving an input from another source
- Web Interface software
    - Extremely intuitive graphical user interface that allows the user to configure all of the settings of the SMA through a simple web browser
    - Easy programming of the master clock's four or eight auxiliary relays for scheduling.
    - Control of all of the IP settings
    - View complete lists of all the pre-programmed events and schedules
- Microprocessor based
- RS485 input and output for time correction and synchronization
- Two (2) relays for simultaneous correction of two synchronous-wired clock systems
- Field programmable
- Ten (10) year battery backup for timekeeping

Optional Features a la Carte:

- Four or eight configurable auxiliary relays (zones)
    - 800 event capability
    - 255 pre-programmed schedule changes
    - Two (2) programmable signal durations per circuit
- GPS input
- Wireless Transmitter/Repeater for correction of the SAL series analog clocks or SBL 3000 series digital clocks
- (S)NTP Server
    - With this software upgrade, the new SMA Master Clock can be used as a (S)NTP server to interface with other devices
- Count down feature
    - Digital clocks will countdown a preset amount of time when the relay is activated

Specifications:

- Time base: Crystal
- Voltage input: 85 VAC - 264 VAC, 50/60 Hz
- Current Consumption: 0.2A at 120V and 0.1A at 230V
- Power Consumption: 20 Watts
- Display: Vibrant LCD display and .56" (1.42 cm) LED display
- Color: Black
- Housing: Smooth surface metal case
- Keypad: 2x8 rubber tactile keypad
- Temperature range
  - Operating: 0°C - 45°C
  - Shelf: -15° - 70°C
- Calendar: Built-in calendar with leap years
- Inputs: GPS (optional), (S)NTP, Wireless repeater, RS485, 58 minute correction, 59 minute correction, National Time and Rauland, Dukane digital
- Standby time keeping: Ten (10) years
- Memory: Non-volatile EEPROM
- Outputs: RS485 and 2 clock circuits
- Optional outputs: Sapling Wireless Communication (with transmitter option)
- Housing dimensions (LxWxD): 11" x 17.5" x 1.75" (27.94 cm x 44.45 cm x 4.45 cm)
- Mounting: Wall mount or Rack mount
- Weight: 6.5 lbs. (2.95 kg)
- 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)
  1 - Dome antenna (with GPS option)

OPTIONS - Zones
- Auxiliary zones: 4 or 8 zones optional
- Contact rating: 8 amps, 0 - 220 volts
- Signal duration: 2 programmable signals per circuit, 1 - 9999 seconds or on/off

OPTIONS - Transmitter
- Input sensitivity: -112 dBm
- RF signal output: 30 dBm (1 watt)
- Transmission frequency: Either 915 - 928 MHz or 2.4 GHz frequency-hopping technology

OPTIONS - GPS
- Antenna: Thread mount bullet on 3/4" conduit
- Antenna dimensions: Diameter: 3.04" (7.72 cm) Height: 2.94" (7.47 cm)
- Ethernet Speed: 10/100 Mbps Full Duplex
- Ethernet Port: RJ45
- Compliance: UL/cUL listed
  FCC part 15 B "class B digital devices"
  CE Compliances: EMC, LVD

Ordering Information

SMA 3000 Series Master Clock

SMA–3M0–TGZZ–1

M - Mounting	T - Transmitter Option	G - GPS Option	ZZ - Zone Option
R - Rack	0 - No transmitter	0 - No GPS	00 - No Zones
S - Surface	1 - With 915-928 MHz transmitter	1 - With GPS	04 - With 4 Zones
	G - With 2.4 GHz transmitter		08 - With 8 Zones

Examples:

SMA-3R0-1004-1: SMA 3000 Series, rack mount, with 915-928 MHz transmitter option, no GPS, 4 zones
SMA-3S0-G108-1: SMA 3000 Series, surface mount, with 2.4 GHz transmitter, GPS, 8 zones

SMA 3000 Series Software Upgrades

(S)NTP Server :
SMA-000-SERV-0: Master clock can act as a (S)NTP Server

Countdown :
SMA-000-CDOW-0: Master clock can activate a count down feature on digital clock models

*Specification sheets may change without prior notice

sapling
Synchronized Clock Systems

The Sapling Company, Inc.   P. +1 215.322.6063
1633 Republic Road   F. +1 215.322.8498
Huntingdon Valley, PA 19006   www.sapling-inc.com
USA