

SMA 3000 Series Master Clock (V5)

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 savings 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 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: 100 - 230 VAC, 50/60 Hz
- 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: 915 - 928 MHz frequency-hopping technology (US and Canada only)
2.4 GHz frequency for international only

OPTIONS - GPS

- Antenna: Thread mount bullet on 3/4" conduit
Diameter: 3.04" (7.72 cm)
Height: 2.94" (7.47 cm)
- Antenna dimensions:

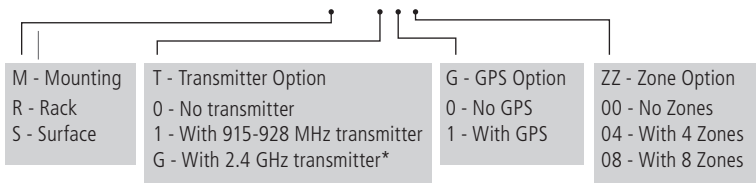
- Compliance: UL/cUL listed
FCC part 15 B "class B digital devices"
CE Compliances: EMC, LVD



Ordering Information

SMA 3000 Series Master Clock

SMA-3M0-TGZZ-1



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

*2.4 GHz frequency range is only available for use outside of the United States.

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



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