SMA 5000 Series TalkBack Master Clock (V4)

Features:

- LED display for a clear, accurate readout
- Equipped with Sapling's TalkBack Technology
    - Two-way communication between the master clock and secondary clocks without the purchase of additional servers or software
    - Master clock receives vital information from each clock in the system such as battery life, signal strength, mechanical status, and more.
- Master clock's intuitive Web Interface allows for remote programming and configuration
    - Create settings for all TalkBack secondary clocks through any web browser
    - Configure email notifications to alert the user of various clock statuses
- (S)NTP Input Capability
    - Up to ten 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
- RS485 input and output for time correction and synchronization
- Two relays for simultaneous correction of two synchronous-wired clock systems
- Microprocessor based
- Ten year battery backup for timekeeping

Optional Features a la Carte:

- GPS input
- Wireless Transmitter/Repeater for correction of the SAT series analog clocks or SBT 3000 series digital clocks
- (S)NTP Server
    - With this software upgrade, the new SMA TalkBack Master Clock can be used as a (S)NTP server to interface with other devices

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: .56" (1.42 cm) LED display
- Color: Black
- Housing: Smooth surface metal case
- 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, 2 clock circuits, and TalkBack Wireless Communication

- 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)

- Input sensitivity: -112 dBm
- RF signal output: 30 dBm (1 watt)
- Transmission frequency: Either 915 - 928 MHz or 2.4 GHz frequency-hopping technology
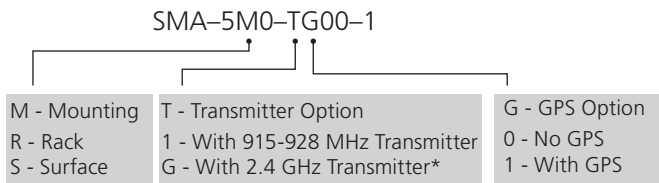
OPTIONS - GPS
- Antenna: Thread mount bullet on 3/4" conduit
- Antenna dimensions: Diameter: 3.04" (7.72 cm) Height: 2.94" (7.47 cm)

- 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 5000 Series TalkBack Master Clock

SMA–5M0–TG00–1

M - Mounting	T - Transmitter Option	G - GPS Option
R - Rack	1 - With 915-928 MHz Transmitter	0 - No GPS
S - Surface	G - With 2.4 GHz Transmitter*	1 - With GPS

Examples:

SMA-5R0-1000-1: SMA 5000 Series, rack mount, with 915-928 MHz transmitter, no GPS
SMA-5S0-G100-1: SMA 5000 Series, surface mount, with 2.4 GHz transmitter, with GPS

SMA 5000 Series Upgrades

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

*specification sheets may change without prior notice