TimeSync1-GPS
Installation & Programming Instructions

INSTALLATION

MOUNTING

- **TimeSync1-GPS** Unit

  1) Select location within cabinet and mount 4" length of DIN Rail with provided machine screws.

  2) Clip unit onto DIN Rail. (Mounting clip fits standard 35mm DIN Rail)

- **ANTENNA**

  1) Using the provided drill template, select an area on top of the signal controller cabinet that does not interfere with other devices. NOTE: be sure mounting plate surface is flush so water cannot seep between the plate and cabinet. Mark locations for the mounting bolts and GPS cable.

  2) Drill three 17/64" holes for mounting bolts; one 5/8" hole for GPS cable.

  3) Align GPS mounting plate with drilled holes. Feed cable into cabinet.

  4) Secure plate with provided stainless steel bolts and nuts. (Requires 7/16" wrench)

CONNECTIONS

1) Plug GPS RJ45 cable into jack on unit/module.

2) A pre-wired connector is provided for power and control circuits. Make the following connections prior to plugging into the TimeSync1-GPS unit.
   - Connect BLACK wire to DC ground
   - Connect RED wire to +DC supply (Range: +8-40VDC)
   - Connect YELLOW wire to signal controller time reset input

3) Plug (green) connector into TS1 unit. Unit should power up and display current local time.

PROGRAMMING

Default Screen: ELTEC TS1-GPS (top line). The lower line displays current LOCAL TIME (of set time zone), periodically alternating to display the CURRENT DATE and the programmed RESET TIME. "GPS Bad Signal" will initially display. If GPS antenna is not receiving a strong signal or any signal from the satellite, "GPS Bad Signal" will continue to display. The unit will NOT do a time reset at scheduled time(s) if "GPS Bad Signal" is displayed.

TO NAVIGATE: Use the thumb wheel to select and change all menu parameters. You can scroll UP or DOWN through all menu options.

TO SET PARAMETERS: PRESS on the thumb wheel to select/set the menu parameters. For initial programming, scroll DOWN from the default screen.

CONFIGURATION PARAMETERS

Menu options in order of appearance:

RESET TIME...................**00:00**
CHANGE HOUR?...........To enter menu, PRESS. Scroll UP or DOWN to desired hour.
 PRESS to set.
SAVE?..............................Scroll thumb wheel to **YES** or **NO**. PRESS to confirm.

RESET TIME...................**00:00**
CHANGE MINUTE?.......To change, PRESS. Scroll UP or Down to desired minute. PRESS to set.
SAVE?..............................Scroll thumb wheel to **YES** or **NO**. PRESS to confirm.

TIME ZONE?...................To select, PRESS. Scroll to desired time zone.
 (Eastern, Central, Mountain, Pacific, Alaska, Hawaii)
 PRESS to set.
SAVE?..............................Scroll thumb wheel to **YES** or **NO**. PRESS to confirm.

RESET FREQ?................To set, PRESS. Scroll to desired frequency.
24 HR................................PRESS to set.

RESET EVERY................Scroll to desired frequency   **(24, 12, 6, 3, HOUR)**
 PRESS to set.
SAVE?..............................Scroll thumb wheel to **YES** or **NO**. PRESS to confirm.

OBSERVE DST?..............To select, PRESS. (Daylight Savings Time*)
 Scroll thumb wheel to **YES** or **NO**
SAVE?..............................PRESS to set.

TRIGGER ON?................To set, PRESS. Scroll to highlight RISING or FALLING
 PRESS to set.
SAVE?..............................Scroll thumb wheel to **YES** or **NO**. PRESS to confirm.

***T**ime**S**ync**1**-**GPS** automatically observes Daylight Savings Time. If you're in an area that is not affected by DST, this option allows the programmed function to be turned OFF.

TROUBLE SHOOTING

Blank Display: Unplug green connector from unit, check connection of black and red wires to DC power source (8-40VDC) and meter to verify proper voltage and polarity. Reconnect unit.

No Time Displayed: Check RJ45 antenna connector is properly seated. Unplug and re-plug antenna connection.

Display Locked, Menu Not Accessible or Extraneous Characters Displayed: Power unit off by unplugging green connector. Wait ten seconds and reconnect unit.

GPS Bad Signal Displayed: Allow several minutes at initial power up for GPS antenna to acquire signal.