



ELECTROTECHNICS CORPORATION

## TS1-GPS INSTALLATION & PROGRAMMING INSTRUCTIONS

### INSTALLATION

#### MOUNTING

- 1) Using the provided 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 TS1 unit.
- 2) A pre-wired connector is provided for power and control circuits. Make the following connections *prior* to plugging into the TS1-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, periodically alternating to display the CURRENT DATE and the programmed RESET TIME. GPS Bad Signal will periodically display if GPS antenna is not receiving a signal from the satellite.

**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 in. Scroll 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?** (Daylight Savings Time\*) To select, PRESS.  
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.

\*TS1-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.

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