

# GT-50 Installation/Operation Manual

**WARNING!!! Do not connect this GT-50 to a Connector wired for the older style GT-50 without temperature capability. Damage will result. WARNING!!!**

## Installation:

### Mechanical

Mount the GT-50 in any 2-1/4" instrument hole using four 6-32 screws. If you are mounting the GT-50 in an instrument panel with a thirty degree panel tilt, be sure to set your unit as described in the Voltmeter section below.

### Electrical

- 1) **Black** (Ground)
- 2) **Yellow** (Backlight Power) When power is applied to this wire the flight timer runs and the backlight is illuminated. Connect this wire to your instrument power source so it is powered when your master switch is turned on.
- 3) **Red** (Always on Power) Connect this wire directly to your battery to power all functions except the backlight. This wire should remain powered at all times including when the yellow wire is powered.
- 4) **Green** (Optional Temperature Probe) **DO NOT** connect the green wire to 12-28 Volts. Use single conductor shielded wire (22,24 or 26 gauge). Connect the center conductor from the green wire to one of the probe wires. Connect the shield from the other probe wire to ground at the GT-50. See OAT Probe Instructions for additional details.

Notes: 1) Both the red and yellow wires should be on fuse or breaker protected circuits. The fuses/breakers may be shared with other equipment. The value of the fuses/breakers can be as little as 0.5 Amp.

## Operation:

**Modes:** The GT-50 has six modes.

PRESS the (Left) **Mode** button the switch between modes.

PRESS and HOLD the (Left) **Mode** button to display the Firmware Version number.

<p><b>Accelerometer</b></p> <p>PRESS the (Right) <b>Action</b> button to display the MAX and MIN G readings. PRESS the (Center) <b>Reset</b> button to clear the MAX and MIN G readings.</p> <p>Occasionally the GT-50 must be recalibrated if it is not reading one G when in level flight.</p> <p>Level the instrument then PRESS and HOLD the (Center) <b>Reset</b> button to calibrate the accelerometer to one G unit. The button must be held until four dashes "----" appear on the display then released to complete the calibration.</p>	<p><b>Voltmeter</b></p> <p>The instrument panel tilt angle is set from the Voltmeter mode. This step is only required if you have a panel angle of 30 degrees (SONEX aircraft). Panel tilt of less than fifteen degrees has a negligible effect on the G reading. If power is removed from the GT-50 the panel tilt will revert to the vertical panel setting of zero degrees when the power is restored.</p> <p>PRESS and HOLD the (Center) <b>Reset</b> button to switch between zero and thirty degrees panel angle. Once the Panel tilt angle is displayed, release the button to save the value that was displayed. The angle can be either zero degrees or thirty degrees.</p>
<p><b>Manual Timer</b></p> <p>The manual timer counts up from one second to a maximum value of nine hours fifty nine minutes (09:59)</p> <p>PRESS the (Right) <b>Action</b> button to start and stop the timer.</p> <p>PRESS the (Center) <b>Reset</b> button to reset the timer to zero.</p>	<p><b>Automatic Flight Timer</b></p> <p>The flight timer automatically runs when power is applied to connector pin 2. This mode is designated by a " -" symbol in the left most digit location. The Flight Timer counts up from one minute (0:01) to a maximum value of nine hours fifty nine minutes (9:59)</p> <p>PRESS the (Center) <b>Reset</b> button to reset the flight timer to zero.</p>
<p><b>Clock</b></p> <p>PRESS the (Center) <b>Reset</b> button to set the clock.</p> <p>PRESS and HOLD the (Center) <b>Reset</b> button until the colon ":" begins flashing to switch between 12 and 24 hour clock modes.</p> <p>PRESS the (Right) <b>Action</b> button to adjust the hours or minutes when they are flashing.</p>	<p><b>Temperature</b> (displayed only when optional OAT probe is installed)</p> <p>PRESS the (Right) <b>Action</b> button to display the MAX and MIN Temperature readings. PRESS the (Center) <b>Reset</b> button to clear the MAX and MIN Temperature readings.</p> <p>PRESS and HOLD the (Center) <b>Reset</b> button to change temperature units between Fahrenheit and Celsius.</p>

### Specifications:

**Input Voltage:** 9-28 Volts DC

**Power Consumption:** at 14V -

Backlight on: 0.025 Amps, Backlight Off: 0.003 Amps – It wont run down your Plane's Battery

**Dimensions:** Fits a Standard 2-1/4" instrument hole.

Overall Width and Height 2.375", Depth behind panel .75 " to back of connector

**Weight:** 3.0 oz.

**Need Help?**

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or call (831) 325-3131