

**The Aerospace Logic CT1** - Now you can have everything in one place! The CT1 Clock and Outside Air Temperature instrument includes a feature-rich aircraft chronograph with constant viewable Outside Air Temperature - all in one 2 ¼” mount instrument.

**Programmable Features** - CT1 allows you to configure the instrument just the way you need it. All clock functions are available in both 12 and 24 hour format with instant indication of the current operating format. Local time is calculated as an offset from UTC. Just set your offset. Programmable to 23 hours 30 minutes either side of the date line.



**Multi-Function Flight Timer** - The flight timer is activated as soon as power is applied to the instrument to provide you with the exact run time. Want to use it as an “air time” timer? Just reset it on your take-off roll or wheels up point. But there is more: CT1’s flight timer also has a second level interval timer. Use it for any interval checkpoint reminders such as fuel tank switching and checkpoint expectations. Simply set the programmable interval period from 1 minute to 99 minutes and 59 seconds. CT1 will alert you each time the interval is reached.

**Down Timer** - Preset the down timer for your predefined run time and continue with your cockpit tasks. CT1 retains your setting even though you utilize its other functions. When you are ready to start the timer simply go back to the down timer selection and select “run”. Using CT1 you can preset your approach times and reporting points, then start the timer at the exact intercept point. Five seconds before the timeout of the timer CT1 will alert you and automatically display the final countdown to your preset time.

**Outside Air Temperature** - Just as if you had a separate OAT instrument you will always have the temperature displayed. No compromise on information visibility when you use CT1. Available in °F or °C.

**Hi-Tech Temperature Sensor** - CT1 uses the latest temperature sensor system. There are no induced errors due to cable length or placement. The temperature sensor uses a monolithic semiconductor with embedded signal conditioning -all built right into the sensor. With this technology the temperature is measured, converted and processed right inside the temperature probe. The exact data is then transmitted to the instrument without any compromise.

**The ONLY Certified Clock for your Aircraft** – Both TSO (C43) and STC certifications are pending for CT1. All other clocks are considered a minor alteration by the FAA. However with the inclusion of the Outside Air Temperature function CT1 will become the only TSO’d and STC’d clock in the world. Certified to work in YOUR aircraft under the most demanding of conditions!


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CT1 – Clock and Outside Air Temperature – Ver. 1.1 – November 10, 2005

<p><b>Dimensions</b></p> <ul style="list-style-type: none"> <li>• Fits standard 2.25" mounting hole</li> <li>• 2.45" X 2.45" X 1.6"</li> <li>• 2" viewing area</li> <li>• Weight: 8oz</li> </ul> <p><b>Display</b></p> <ul style="list-style-type: none"> <li>• Sunlight visible</li> <li>• InGaAlPGaN LED technology</li> <li>• 100,000 hours operating life</li> </ul> <p><b>Operating Ranges</b></p> <ul style="list-style-type: none"> <li>• 12/24 hour UTC clock</li> <li>• 12/24 hour local time clock</li> <li>• +/- 23:30 hour local to UTC offset</li> <li>• Down timer: 99 minutes 59 seconds to 1 second</li> <li>• Flight timer: 1 second to 18 hours 12 minutes</li> <li>• Interval timer: 1 minute to 99 minutes, 59 seconds</li> <li>• -58°F to + 302°F OAT</li> <li>• -50°C to +150°C OAT</li> </ul> <p><b>Accuracy</b></p> <ul style="list-style-type: none"> <li>• Clock within 2 minutes per month</li> <li>• OAT +/- 1% (Per TSO C43 requirement)</li> </ul> <p><b>Resolution</b></p> <ul style="list-style-type: none"> <li>• 0 to 99.5° : 0.5°</li> <li>• All other ranges : 1°</li> </ul> <p><b>Safety</b></p> <ul style="list-style-type: none"> <li>• Up timer interval alarm</li> <li>• Down timer completion alarm</li> <li>• External alarm driver output</li> <li>• External processor watchdog</li> </ul> <p><b>Operating Temperature ( Per DO-160(D) )</b></p> <ul style="list-style-type: none"> <li>• -15°C to +55°C</li> <li>• 5°F to 131°F</li> </ul>	<p><b>Certifications Pending</b></p> <ul style="list-style-type: none"> <li>• DO-160(D)</li> <li>• DO-178(B)</li> <li>• TSO C43</li> <li>• STC for ~700 aircraft</li> </ul> <p><b>Programmable Options</b></p> <ul style="list-style-type: none"> <li>• All time settings</li> <li>• 12 or 24 hour clock selection</li> <li>• Local time offset from UTC</li> <li>• Intensity source – internal or external</li> </ul> <p><b>Available Models</b></p> <ul style="list-style-type: none"> <li>• CT1-F for °F operations</li> <li>• CT1-C for °C operations</li> </ul> <p><b>Operating Voltage</b></p> <ul style="list-style-type: none"> <li>• 6V-40V DC continuous</li> <li>• 40V-60V for &lt; 5 seconds</li> </ul> <p><b>Power Consumption</b></p> <ul style="list-style-type: none"> <li>• ~30nA (not operating). When not in use the instrument uses the aircraft battery to retain date and time information.</li> <li>• 275mA Max (daytime operation)</li> <li>• 50mA Min (nighttime operation)</li> </ul> <p><b>Sensor Technology</b></p> <ul style="list-style-type: none"> <li>• Monolithic solid state temperature sensor</li> <li>• Quartz crystal clock oscillator</li> </ul>
 <p>All specifications subject to change. © 2005 Aerospace Logic Inc.</p>	

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