

## ASTROTECH LC-60 CHRONOMETER

### LC-60 DESIGN BASIS

2321 Topaz Drive  
Hatfield, PA 19440  
215. 822. 6090 p  
215. 822. 7974 f

The Astrotech model LC-60 chronometer is designed for air transport use. It incorporates an ARINC 429 bus for interconnection to other systems in the aircraft or slaving another LC-60. The layout of the LC-60 makes it an economical and reliable choice for the high-use applications with ease of maintenance. The solid state construction with no moving parts inside makes it resistant to dirt, vibration, and the wear of mechanical clocks.

### LC-60 SPECIFICATIONS

#### Clock

12 or 24 hour Local Time (LT) and 24 hour Universal Coordinated Time (UTC).

#### Elapsed Timer

100 hour capacity Stopwatch (SW), stop and restart or reset to zero.

#### Flight Timer

100 hour capacity, started and stopped by external input (i.e.: landing gear), resets on power-up.

#### Down-Counter

Pre-settable in hours, minutes, & seconds for timing approaches or fuel management, may be wired for external alarm.

#### Display

Continuous readout using a negative image (white digits on black background). Liquid crystal display for excellent visibility during all operating conditions.

#### Lighting

The display is lighted for night flying and connects to the aircraft instrument panel dimming circuit. The LC-60 is available for 5V AC/DC or 28 VDC lighting circuits.

#### Power

The LC-60 requires 28 VDC aircraft power. The clock power input current is typically 8 mA and may be connected to the hot bus for full time clock operation. 429 bus current is 10 mA typical. An internal 1/2AA battery with an estimated 10 year life is used to provide keep-alive power when aircraft power is removed.



#### Weight

Less than 8 ounces (227 grams)

#### Installation

Installs into a standard 2ATI (2 inch air transport indicator) panel cutout using a standard mounting clamp (not furnished).

#### Environmental

The LC-60 is qualified to all of the applicable sections of RTCA DO-160 for electrical and mechanical compliance.

PART NO.	MODEL	DESCRIPTION
AT6421R1	LC-60	Panel mounted, aircraft powered, internal 1/2AA keep-alive battery, 28 VDC lighting
AT6421R3	LC-60 S/R	GPS send/receive, panel mounted, aircraft powered, internal 1/2AA keep-alive battery, 28 VDC lighting

**FEATURES**

- Liquid Crystal Display
- ARINC 2ATI case
- ARINC 429 bus send and receives time and date
- Ten-year keep-alive battery
- Universal Coordinated Time (UTC)
- Local times (12- or 24-hour)
- Flight timer
- Stopwatch (elapsed counter)
- Down counter with alarm output
- Date

**INSTALLATION DIAGRAM**

