LC-60 CHRONOMETER

LC-60 DESIGN BASIS

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
Presettable 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.

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

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).

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.

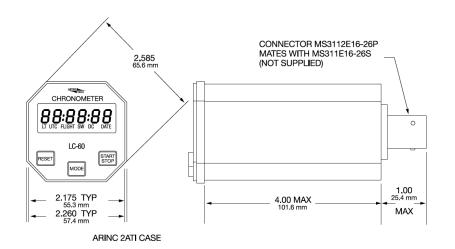| PART NO.	MODEL	DESCRIPTION
AT6421R1	LC-60	Panel mounted, aircraft powered, internal 1/2AA keep-alive battery, 28 VDC lighting
AT6421R3	LC-60 S/R	GPS send/receive, panel mounted, aircraft powered, internal 1/2AA keep-alive battery, 28 VDC lighting

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) operations

- Local times (12- or 24-hour)
- Flight timer
- Stopwatch (elapsed counter)
- Down counter with alarm output
- Date

INSTALLATION DIAGRAM