

## ASTROTECH LC-20 CHRONOMETER

### LC-60 DESIGN BASIS

2321 Topaz Drive  
Hatfield, PA 19440  
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The Aerospace Display Systems LC-20 is a precision, multi-functional chronometer designed to operate under the most stringent operating conditions. The ADS model LC-20 chronometer was designed for military aircraft. It uses a microprocessor to provide timing, display, and control functions. The time is maintained by an integrated circuit which has a battery to provide timekeeping functions when aircraft power is removed. The high-quality design has a sweep second readout for display of seconds. The circuitry is not subject to dirt, vibration, friction, or wear characteristics of mechanical clock movements.

### LC-60 SPECIFICATIONS

#### Clock

24 hour time of day (C) is displayed in six digits with a sweep second hand for seconds..

#### Elapsed Timer

24 hour capacity Elapsed Timer (ET); the operations are stop, reset to zero, and start.

#### Display

A dichroic liquid crystal display (DLCD) with white digits on a black background is used for excellent visibility in direct sunlight. The six digit DLCD displays hours, minutes, & seconds; seconds are also displayed by a sweep second hand in the DLCD.

#### Lighting

The display is lighted for night operation and connects to the aircraft instrument panel dimming circuit. 5V @ 230 mA aircraft power is required for lighting. 28V lighting is optional.

#### Power

28 VDC @ 180 mA aircraft power is required. An internal 1/2 AA battery is provided for keeping time when aircraft power is removed.



#### Weight

Maximum 10.0 oz. (283 grams).

#### Installation

Installs from the front of the aircraft panel directly into standard 2.25 inch (57.2 mm) clock cutout. Uses mating connector MS27467T9B35SN (not included).

#### Environmental

Designed to meet the environmental requirements of MIL-STD-810 and MIL-STD-461.

PART NO.	MODEL	DESCRIPTION
AT6251	N0DNM-100-150	Night Vision Imaging System (NVIS) compatible lighting per MIL-L-85762

National Stock Number: 6645-01-398-9100

**FEATURES**

- Liquid Crystal Display for excellent sunlight readability
- 24-hour clock
- Sweep second hand
- 24 hour elapsed timer
- Two-button operation
- Backlit for night operations
- Front mounts into aircraft panel
- Internal keep-alive battery

**INSTALLATION DIAGRAM**

