# CLOCKS – TIMERS

## ASTROTECH QUARTZ CHRONOMETERS

A fine quality 2-1/4" instrument to satisfy all cockpit clock/timer needs. 12 or 24 hour clock, 24 hour elapsed timer with time-out or hold feature, month and date. Will operate on internal battery for 2 years or can be connected to electrical system. 12 or 28V DC operation. **Does not include internal battery.**

| Part No. | Model | Description | Price |
|---|---|---|---|
| 10-05855 | LC-2 | Panel Mount Two AAA Battery Powered | --- |
| 10-06811 | LC-2 | Panel Mount Aircraft Powered | --- |

**NOTE: For Aircraft Application Information on Astrotech Chronometers visit www.aircraftspruce.com**

## FLIGHT DATA SYSTEM ELECTRIC TACHOMETER

Tachometer: Monitors both left and right ignition systems. Works with magnetos and electronic ignition. Warns when an ignition system has failed. Engine Hour Meter: Saves engine hours in "tach time" or actual time. Flight Timer: Automatically records flight Time. **Features**: Large and easy to read digits. Extreme operating temperature display. Soft orange backlight with automatic brightness. 2-1/4" panel mounted. Weighs 2.6oz. Includes pre-wired connector. 12-28 volt compatible ....................................................P/N 10-03898 .................. ---

## AEROSPACE LOGIC 200 - CLOCK, OUTSIDE TEMPERATURE KIT

The CA200 is an advanced, next generation airborne timepiece plus a seven input annunciator. It can scan seven 200 Series instruments and report any out-of-limit conditions the moment they occur; all on one instrument. Once identified, simply glance over the panel to view the exact cause for concern. With the CA200 mounted either in or close to your primary panel scan you will reduce the need for consistent full panel scans and be automatically made aware of any condition requiring attention. The CO200 is identical to the CA200 with the exception of the annunciator function. Using one of the world's most accurate digital timebases they will provide precise time for years to come. Outside air temperature functionality is TSO'd and meets the temperature accuracy requirements of SAE AS8005 for a Class IIa (+/- 1%) instrument. Functional displays include: • UTC Time • Local Time • Chronograph • Flight Time and Interval Timer • Seven annunciator sense inputs (CA200 only) ................................................P/N 10-04348 .................. ---

## XREXS® DIGITAL TIMER

This timer is the perfect size for cockpit use. It times up and down, and has a large, easily readable display. With a clip on the back for mounting on a kneeboard, and includes battery. The hang card makes it easy to display, too. **Specifications:** • Timer size: 2.95x 0.75x 2.56 inches • LCD display: 2.44 x 1.06 inches • Color: White • Weight: 95g • Material: ABS plastic • Power: 2 AAA batteries (included) ..P/N 13-23273 .................. ---

## SUPERCLOCK FROM ELECTRONICS INTERNATIONAL

Displays local and Zulu time. May be set to display in a 12 or 24-hr format. A 10-year lithium battery keeps the clock running even if the aircraft battery is removed. Displays an Up Timer, that will start running when the engine is started. Acts as an automatic Flight Timer. The Up Timer may be started, stopped or reset. A Recurring Alarm may be set to alert you at appropriate time intervals. Displays a Down Timer. Displays an Engine Timer. Acts as a Hobbs Meter. When the engine starts, the Engine Timer will run. **Specifications**: 2-1/4" mount. 3.65" Depth. 10 Oz. Unit. Viewable in direct sunlight. Backlit for night operation. Operates from 7.5 to 35 volts at .3 amps ...................P/N 10-01612 .................. ---

## QUARTZ ELECTRIC AIRCRAFT CLOCKS

These clocks are constructed for easy installation in a wide variety of aircraft. The rugged quartz movement is accurate within 2 seconds in 24 hours under normal operations and runs accurately in temperatures from -30°–180°F. The clock kit includes a power harness, mounting screws and installation instructions. The clock features adjustable red elapsed time hands.
12V....................................P/N 10-22812 .................. ---
24V..................................P/N 10-22824 .................. ---

## MID-CONTINENT CHRONOS DIGITAL CLOCK / MAX POWER USB CHARGERS

The CH93 series, part numbers 6420093-( ), is a multi-function digital clock / chronometer / voltmeter / temperature unit with multiple options for USB Charging Ports. The unit fits into a standard, rear-mounted, 2-¼" avionics panel cutout. Power is drawn from the aircraft main bus to light a white, six digit, seven segment LED clock. The clock can display several different modes: local time, universal time, flight timers, elapsed and countdown timers and optionally, bus voltage and up to two temperature inputs. The USB Charging Ports are designed as DCPs (Dedicated Charging Ports) to industry-standard protocol per the USB Battery Charging 1.2 Compliance Plan. Some models also comply with the higher power requirements of USB Power Delivery 2.0 and 3.0. Early-generation or smaller consumer electronics typically accept one (1.0) amp during charging. However, newer electronics, such as tablets and larger devices can accept, and in some cases, require up to 3 amps to charge and operate.

| Description | Model No. | Part No. | Price |
|---|---|---|---|
| Digital Clock Only | 6420093-0 | 10-07369 | --- |
| Dual USB-A/USB-C PD 75 W/6A | 6420093-5 | 10-07292 | --- |
| Single USB-A Charger 15W/3A Out | 6420093-3 | 10-07294 | --- |
| Dual USB-A 30W/6A Out | 6420093-4 | 10-07295 | --- |
| Dual USB-A Charger 30W/6A Out | 6420093-2 | 10-06963 | --- |

## FLIGHT TIME INFORMATION SYSTEM FTC (RECTANGULAR)

Easy Flight Time Controlling for Basic Training, Glider Towing, Parachuting. **FTC**: • Counts Time Hours and Minutes • 37x24 mm rectangular • FTC with same front size as Hobbs time counter • Easy initial time set with 2 push buttons on back side • Input for On/Air from external switch or GPS system with output • Power supply is 12 V to 24 V DC37x24 mm Rectangular.................................................P/N 10-05107 .................. ---

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| Description | Model No. | Part No. | Price |
|---|---|---|---|
| Digital Clock Only | 6420093-0 | 10-07369 | --- |
| Dual USB-A/USB-C PD 75 W/6A | 6420093-5 | 10-07292 | --- |
| Single USB-A Charger 15W/3A Out | 6420093-3 | 10-07294 | --- |
| Dual USB-A 30W/6A Out | 6420093-4 | 10-07295 | --- |
| Dual USB-A Charger 30W/6A Out | 6420093-2 | 10-06963 | --- |

## WESTBEND ELECTRONIC TIMER

The jumbo LCD display on this electronic timer displays time in hours, minutes and seconds. Includes clock feature, electronic alarm, clip, stand, magnet and hanging hole for versatile use. AAA Battery included. P/N 17-00240 .....................

## DIGITAL 3 CHANNEL CLOCK / TIMER

Digital 3 channel timer with large LCD screen with magnetic back and battery included.
It has three separate timers allowing you to use it for three separate events. 3 channels can be counted up & down simultaneously and turn them off individually. Time can be set with a wide range from 00:00:00 to 99 :59 : 59. Electronic timer with adjustable volume with flashing red light alarm. You can adjust the volume (high/low/mute) according to your requirement. Switch to save battery life, Set a re-use time as memory time. Press "M" button to bring up the memory time. Meanwhile Press "CLEAR" to reset. when the timer goes off. If you don't shut it off, it will beep with red flashing light for one minute, and it changes to a stop watch.
P/N 17-00350 .................. ---

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