



Digital GPS Clock  
MD23-190

## Digital GPS Clock

Manufactured by Mid-Continent Instruments and Avionics

2-INCH DIGITAL CLOCK SYNCs WITH A GPS SOURCE,  
PROVIDES MULTIPLE TIMERS AND MODES

The new MD23-190 multi-function clock features UTC Time, Local Time and multiple Timers. It displays smooth, high-resolution graphics and receives ARINC 429 input to sync with a GPS source. The MD23-190 maintains accuracy, even if GPS input is unavailable. It can output time to external equipment and provide Estimated Time (ET) to your next waypoint. Night Vision Imaging System (NVIS) compatible versions are available.

- Clock settings include 12- or 24-hour mode and seconds ON or OFF
- Fits standard 2-inch panel cutout
- Rechargeable, field-replaceable emergency battery (available)
- Lightweight — 0.4 lbs
- Simple user interface — Single, push-and-turn control knob
- Daylight readable LCD and smooth, high-resolution graphics
- Manual external lighting control or built-in photocell for automatic dimming
- Night Vision Imaging System (NVIS) compatible (available)
- Field-upgradeable software via standard USB-A port
- TSO-certified (Design Assurance Level A)
- Designed and built in Wichita, Kansas, USA
- Two-year limited warranty

**9 Functions** Local Time, UTC/Zulu Time, Flight Timer, Countdown Timer, Stopwatch, Date, Time to Waypoint, Hobbs, Run Timer

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## SPECIFICATIONS

Power Input	10–32 VDC 0.14A @ 28 VDC; 4 watts nominal	
Data Input	ARINC 429	Low or high speed; Labels 150, 252
Data Output	ARINC 429	Low or high speed; Label 150
Lighting	5, 14, or 28 VDC external control or internal photocell for automatic dimming	
Battery	Rechargeable coin cell (memory only) Rechargeable, field-replaceable emergency battery power supply (available) P/N 6430006-(1) Technology Nickel Metal Hydride (NiMH) Attributes 0.25A @ 24 VDC nominal (6 Wh capacity) Run time 60 minutes @ 0.25A	
Weight	0.4 lbs (0.17 kg)	
Mounting	Rear panel mounted, (4) #6–32 screws, 2.25-inch round bezel	
Dimensions	2.43 x 2.43 x 1.0 inches (61.7 x 61.7 x 25.4 millimeters)	
Mating Connector	P/N 9019162-1	26-pin, D-Sub electrical connector (Quick Disconnect)
Certification	FAA TSO certified to C113b RTCA DO-160G qualified RTCA DO-178C qualified, Design Assurance Level (DAL) A	
Rights	U.S. Patent 11,048,389	

