

GPS500

FEATURES

- Generates SMPTE, EBU or IRIG-B time codes
- Synchronizes to GPS satellites
- -11.5 to +12 hour time zone offsets in 30-minute increments
- NMEA/Kinematics/Truetime serial protocol output
- Wide DC power supply input range: 12 to 48 VDC
- Switch-selectable time zone and DST
- Switch selectable format and baud rate

SPECIFICATIONS

Time Reference Accuracy

- > SMPTE output accuracy of ± 20 microseconds
- > IRIG-B0 (DCLS/PWM) output accuracy of ± 90 microseconds
- > IRIG-B1 (AM) output accuracy of ± 1.4 milliseconds
- > PPS output accuracy of ± 60 nanoseconds

Holdover Accuracy

- > With loss of power, device reverts to an internal battery-backed real-time clock chip with accuracy of ± 1 min/year or < 165 ms per day

Outputs

- > SMPTE 30, 25, 24fps (non drop frame only)
- > IRIG-B0 (DCLS/PWM): unmodulated, single ended - 5 V
- > IRIG-B1 (AM): 1 kHz modulated, level - 5 Vpp
- > Date encoded references (IRIG 1344 and SMPTE Leitch date format or 309M)
- > PPS
 - 5 V-TTL
 - Pulse width configurable via switch from ~ 200 ms to ~ 1 ms
- > Serial output via RS-232/RS-485
 - NMEA/Kinematics/Truetime protocol

Connectors

- > Output: 9-pin removable terminal block
- > Power plug: 3-pin removable terminal block
- > Antenna: SMA female



Physical

- > Size: 5.4d x 4.06w x 1.44h in (13.8d x 10.32w x 3.65h cm)
- > Weight: 12.8 oz (362.9 g)

Power Supply

- > DC input (12-48 VDC)
- > Includes external 24 VDC wall-mount power supply with locking DC plug (UL and CE listed)

Operating Parameters

- > Temperature: 0 to 60°C
- > Humidity: Up to 90% (non-condensing)

Compliance

- > FCC
- > CE Marked
- > ROHS
- > ANSI

Antenna Options

- > Basic antenna package includes magnetic GPS antenna and 15 ft (5 m) of cable
- > Standard antenna package includes outdoor GPS antenna, mounting kit, and 50 ft (15 m) of cable

Rack mountable with RM4



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