

MASTER CLOCK GENERATOR

FEATURES

- Generates SMPTE / EBU or IRIG-B Time Codes
- Synchronized to atomic clock in GPS satellites
- -11.5 to +12 hour time zone offsets in 30 minutes increments
- Automatic daylight saving (US & Canada time standard)
- Multiple outputs
- 115/220 VAC or 9-28 VDC operation
- Kinematics / Truetime serial protocol output option

GPS200



Front & Rear View

SPECIFICATIONS

OUTPUTS

- SMPTE Time Code
SMPTE, EBU or Film, 24 - 25 or 30 FPS, level - 2 Vpp
- IRIG-B Time Code
IRIG-B - 1 kHz modulated, level - 5 Vpp
IRIG-B - unmodulated, single ended 5 V
IRIG-B - unmodulated / differential 5V
- Relay Closure on Alarm Condition
- PPS (Pulse Per second)
5 V-TTL, Accuracy ± 1 us (when synchronized)
- RS-232/ASCII
Time code information available via RS-232
Kinematics / Truetime serial protocol output option
- DATE
Date information is included in user bits

RACKMOUNT

- Optional rack mount kit is available - see RM4

PHYSICAL

- Size - 1.5 x 4.1 x 5.5 in. (3.8 x 10.4 x 14 cm)
- Weight approximately 18 oz. (500 grams)

CASE

- Cover - pearl white aluminum
- Front/rear panel - clear anodized aluminum

CONNECTORS

- Output - DB-9 female – DB-9 to BNC adapter included
- Power plug - 2mm male power jack
- Antenna - TNC female

TIME REFERENCE

- When synchronized : Atomic clocks in GPS satellites - long term accuracy same as GPS atomic clock
- After initial synchronization and (if) upon loss of GPS signal the GPS 200 will revert to an internal calibrated oscillator and typically maintain accuracy of <150 ms per day.
- Accuracy when not synchronized: internal quartz crystal (.01%)

POWER SUPPLY

- 12 VDC external wall mount supplied, UL & CE listed
- 115/230, 50/60 Hz
- Supplied with US, Euro-plug, British or AUS/NZ - others optionally available

ANTENNA

- Basic package – pre-amplified antenna and 16'/5m cable. In the standard package a pre-amplified antenna is included with 50'/15m of coaxial cable and mounting bracket.