

RADIO TIMING® BGPS



The generator RTB GPS® is a receiver of GPS satellite system (Global Positioning System) delivering the time information in AFNOR NFS 87-500 / IRIG B AC code with an high accuracy on long distances with a single telephone pair.

Internal time base

- XO Quartz:
Frequency stability 2.10^{-6} (20°C to 30°C).
Ageing $1.5.10^{-8}$ / day

Specifications

| | |
|-------------------------------|------------------------------------|
| Power supply available | 230 VAC or 115 VAC Or 18-72 VDC |
| Certifications | CE, EN 62368 (safety), ROHS |
| Maximum consumption | 20 VA |
| IP | 66 |
| MTBF | 90 000 h |
| MTTR | Mother board: 10 min |
| Weight | 0.9 Kg |
| Dimensions | 76 x 180 x 130 mm (LxHxD) |
| Display | LED dans boitier |
| Operating temperature | -20 to 70°C |
| Storage temperature | -20 to 80°C |

Key features

- **GPS receiver** AFNOR NFS 87-500 / IRIG B modulated output carrier 1KHz level 2.2V galvanic isolation by transformer
- **Distance between GPS antenna and the RTB GPS** up to 50m depending on the version
- Several kilometers of **distance between the RTB GPS and the master clock up to 40 km** on a simple phone pair
- **Accuracy: 20 µs**
- **Protection filter**, against over voltage and industrial noise
- IP 66 case
- Tropicalized product

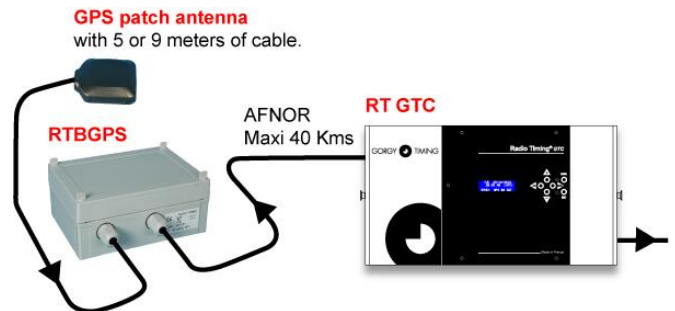
Configuration

Time zone programming of delivered IRIG B or AFNOR NFS 87-500 code

Synchronization input

- GPS integrated antenna
- GPS patch antenna with 5 or 9 meters of cable (cable included).
- GPS antenna (antenna not included).

Example of cabling:



RADIO TIMING®GPS

MASTER CLOCKS / TIME SERVERS / SOFTWARES / GNSS ELEMENTS

| | | | | | | | |
|--|--|-----------|---|---|---|---|--|
| | | ITEM CODE | | | | | |
| | | 404 | □ | / | □ | □ | |
| VERSION | | ↑ | ↑ | ↑ | | | |
| Standard: AFNOR NFS 87-500 (IRIG B) output <input type="checkbox"/> | | 8 | | | | | |
| POWER SUPPLY | | | | | | | |
| Standard: 230VAC/50-60Hz <input type="checkbox"/> | | 0 | | | | | |
| 115VAC/50-60Hz <input type="checkbox"/> | | 1 | | | | | |
| 18 to 72 VDC <input type="checkbox"/> | | 9 | | | | | |
| (1)ANTENNA OPTION | | | | | | | |
| Standard: integrated GPS Antenna <input type="checkbox"/> | | | | | | 0 | |
| Patch Antenna with 5m cable <input type="checkbox"/> | | | | | | P | |
| Patch Antenna with 9m cable (5m + 4m extension) <input type="checkbox"/> | | | | | | N | |
| Active GPS antenna 35 dB <input type="checkbox"/> | | | | | | G | |

(1) GPS antenna and cable to be ordered separately

| | | | | | | | | | | | | | |
|---|--|-------|---|---|---|----|----|---|---|---|---|---|--|
| ACTIVE GPS ANTENNA 35dB | | 92225 | | | | | □ | □ | □ | □ | □ | □ | |
| | | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | | | | | | |
| ACTIVE GPS ANTENNA 35dB 3V <input type="checkbox"/> | | G | | | | | | | | | | | |
| Cable Type (LSZH*) | | | | | | | | | | | | | |
| LMR 240 Cable (25m and 50 m cable) <input type="checkbox"/> | | 3 | | | | | | | | | | | |
| LMR 400 cable <input type="checkbox"/> | | 4 | | | | | | | | | | | |
| *Low smoke, no halogen. | | | | | | | | | | | | | |
| Number of cable | | | | | | | | | | | | | |
| 1 cable <input type="checkbox"/> | | 1 | | | | | | | | | | | |
| Cable length | | | | | | | | | | | | | |
| 25 m <input type="checkbox"/> | | | | | | 25 | 00 | | | | | | |
| 50 m <input type="checkbox"/> | | | | | | 50 | 00 | | | | | | |
| 80 m <input type="checkbox"/> | | | | | | 80 | 00 | | | | | | |
| OPTIONS | | | | | | | | | | | | | |
| Surge arrester (+ 1m cable) <input type="checkbox"/> | | | | | | | | | | | | P | |
| Line amplifier <input type="checkbox"/> | | | | | | | | | | | | A | |