

GR-201 GPS Timing Receiver/Antenna

- **GPS Receiver / Antenna**
- **Provides real time GPS position**
- **uBLOX Chipset**
- **RS-232 Data Interface**
- **1pps Timing Signal**
- **Waterproof**



Description:

The **GR-201** is a GPS receiver suitable for use in all-weather environments. It has a waterproof housing with integrated antenna and a central thread for pole mounting.

The 1 pulse-per-second output signal offers the possibility of use in situations where precise timing is required.

The **GR-201** supplies in real-time the position, speed and direction in NMEA 0183 to your navigation display, PC or laptop. It can operate with any NMEA-compatible Navigation Software.

The **GR-201** has an RS-232 serial interface.

Applications:

- Navigation and positioning
- Positioning and timing in difficult environments
- Application for marine Navigation
- Timing for base-station etc.
- Fleet management GPS system

Specifications:

GR-201

Mechanical Data:

Size (Diameter x H)	102,9mm x 88,5m
Cable	15m central exit
Mounting	1" screw for pole mount
Housing color	white

Environmental Conditions:

Operating Temp.	-30°C ~ + 75°C
Storage Temp.	-40°C ~ + 85°C

Communication:

Protocol	NMEA-V3.00 UBX-binary RTCM
Signal level	RS-232

Interface Capability:

Standard Output Sentences	GGA,RMC,GSV,GSA,VTG,LL,ZDA
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Performance:

GPS Chipset	uBLOX LEA-6H
Receiver architecture	50 parallel channels
Built-in Antenna	Ceramic patch
Sensitivity	-162 dBm
Start up time (typical)	1 sec. (hot start) 26 sec. (warm start) 26 sec. (cold start)
Timing pulse	1 pps
Timing pulse accuracy	RMS 30ns, 99% < 60ns
Position accuracy	< 2,5m
Velocity max.	500 m/s
Altitude max.	50 km
Update Rate	1 Hz (standard) ~ 5 Hz
Power Supply	8V ~ 35V DC
Current Consumption	Acquisition: 67 mA Tracking : 47 mA
Baud Rate	4800 bps (default) Option: 4800/19200/38400/57600/115200

Shipment:

Receiver with cable attached

Ordering Information:

GR-201-1PPS-RS232 Receiver with 15m cable (no connector)

Alternatively, it can be ordered with a connector to your specified pinout.

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