

G30-L RS232/USB Compact GPS Receiver with Data Logger

Feature – Specifications

General	MG-30R /MGL-30R	MG-30U/MGL-30U
GPS Receiver	12 Channel "All-in-view" tracking	12 Channel "All-in-view" tracking
Cable Connections	Terminated DB-9 serial connector and cigarette lighter plug, 12 ft. cable.	Terminated USB serial connector, 12 ft. cable.
Mounting	Magnetic mount.	Magnetic mount.
Performance		
Position Accuracy	25 meters CEP without SA	25 meters CEP without SA
Velocity Accuracy	0.1 meters/second, without SA	0.1 meters/second, without SA
Max Speed	515 meters/sec.(1000 Knots) max.	515 meters/sec.(1000 Knots) max.
Acceleration	4 g., max.	4 g., max.
Jerk	20 meters /sec. ³ max.	20 meters /sec. ³ max.
Max Altitude	18,000 meters (60,000 Feet) max.	18,000 meters (60,000 Feet) max.
Time to First Fix	45 sec (Cold Start) 38 sec (Warm Start) 8 sec (Hot start) 0.1 sec (Reacquisition)	45 sec (Cold Start) 38 sec (Warm Start) 8 sec (Hot start) 0.1 sec (Reacquisition)
Update Rate	1/sec	1/sec
Receiver Sensitivity	-175dBW	-175dBW
Map Datum	WGS-84	WGS-84
Data Logger	16M bit (up to 15hrs for PVT data, 1Hz update rate) (MGL-3R only)	16M bit (up to 15hrs for PVT data, 1Hz update rate) (MGL-30U only)
Interfaces		
Input Voltage	+5V DC	+5V DC
Power Cons.(Avg.)	0.3 watt	0.3 watt
Serial Comm.	Hardware/ software baud rates: 4800 baud (default)	Hardware/ software baud rates: 4800 baud (default)
Protocol Messages	NMEA 0183 v2.2 SiRF Binary	NMEA 0183 v2.2 SiRF Binary
Physical	Compact, integrated GPS receiver and antenna	Compact, integrated GPS receiver and antenna
Dimensions	66 x 50 x 25.5	66 x 50 x 25.5
Weight	85g	85g
Operating Temp	-10°C to +70°C	-10°C to +70°C
Storage Temp	-40°C to +85°C	-40°C to +85°C