GPS-RTS

GPS Receiver with Time Code Output

Precise Time Reference

Description

GPS-RTS is a rugged GPS receiver which produces time pulses in addition to the GPS time and GPS coordinates. The receiver electronics and the antenna are integrated in a small, sealed case. Therefore, it can be mounted at a place, which provides the optimum receiver performance (e.g. at ship's mast or on top of seismic recording trucks). The system includes a RS485/RS422 interface for data transmission via long cables, a standard cable of 30 m length and a connector box with plugs for the external power supply, time pulse output, and serial link to PC.

...the signal integrity experts

GPS-RTS

Technical Data

GPS receiver	Motorola M12 Plus Oncore
Time to first fix	‹ 60 s
Positioning Accuracy	100 m 2dRMS with SA as per DoD specification ‹ 25 m SEP without SA 1-5 m typical in differential mode
GPS interface	RS485 and RS422 for connections via cable up to 1200 m length 4800 baud, 8N1
GPS output	1 pps and NMEA string, transmission between receiver and distribution box as differential signal

Power Consumption	1,8 W
Size	140 x 140 x 100 mm
Case	Durable aluminium, weather sealed
Protection	IP65, EMI
Weight	1,65 kg
Power Supply	12V (+/- 25%)
Operating temperature	-40 to +85 °C

PC-software for read out GPS-data via RS232 is available on request.

Applications

- Synchronisation of clock oscillators in Ocean Bottom Seismographs (e.g. GEOLON-MES of SEND)
- Delivery of time references for combining different recording systems which could read GPS time pulses

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