zenitel

DATASHEET

3005050031

122980-60 GPS/GNSS receiver

Master Clock System



GNSS

Description

Used for time synchronization of master clocks 70000 and 70000L

The GPS-receiver is intended for outdoor mounting and the antenna needs clear view upwards. The receiver can be mounted on a mast by using a clamp or directly to a wall by using the enclosed aluminium bracket. It is also possible to remove the aluminium bracket and mount the enclosure directly to a roof. A built in LED indicates the signal reception. Connection to the master clock is done with 3 wires.

The Global Positioning System (GPS) is a satellite based navigation system operated and maintained by the U.S. Department of Defence. GPS consist of a constellation of 24 satellites providing worldwide, 24 hour, three dimensional (3D) coverage. Although originally conceived for military needs, GPS has a broad array of civilian applications including surveying, marine, land, aviation, and precise time. GPS is the most accurate technology available for easy timing.

By computing the distance to satellites orbiting the earth, a GPS receiver can calculate an accurate position. This process is called satellite ranging. A 2-D position calculation requires three satellite ranges. A 3-D position calculation, which includes altitude, requires four satellite ranges. GPS receivers can also provide precise time, speed, and course measurements, which are beneficial

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for vehicle navigation.

Westerstrand GPS unit uses a miniature 12-channel GPS. Its compact size and low power consumption make it ideal for this application.

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Specifications

GENERAL	
Signal delay	Timing pulse synchronised to UTC within +- 1 microseconds
Acquisition time	Cold start: 2 min to 5 minutes. Warm start: 30 seconds (with battery)
Operating temp	-40ºC to +80ºC
Prime power:	+8V to 35V (Power supply from Master Clock / Time Central)
Power consumption	0.2 watt (nominal)
Backup power	3V lithium battery
Antenna	Compact, active antenna. Short circuit protection
Connection wire	3 x 0.25mm2 shielded, maximum length 300m, Cable example: ELAKY/ELAQBY 2 x 2 x 0,28 mm2, LIYCY 3 x 0,25 mm2
Housing	Polycarbonate, colour grey RAL 7035
Protection	IP-66
Dimension	100 x 100 x 50 mm
Weight	Approx. 0.3 kg

Used With

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Marine Master Clock 70000

123378-01 Marine Master Clock 70000

Item Number: 3005050028



Marine Master Clock with Network Time Server, 70000L

123378-11 Marine Master Clock 70000L With Network Time Server

Item Number: 3005050029

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