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 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.

www.zenitel.com info@zenitel.com Last revision date: 2023-07-31 23:40

Zenitel and its subsidiaries assume no responsibility for any errors that may appear in this publication, or for damages arising from the information therein. Zenitel products are developed and marketed by Zenitel. The company's Quality Assurance System is certified to meet the requirements in NS-EN ISO 9001. Zenitel reserves the right to modify designs and alter specifications without notice.

ZENITEL PROPRIETARY. This document and its supplementing elements, contain Zenitel or third party information which is proprietary and confidential. Any disclosure, copying, distribution or use is prohibited, if not otherwise explicitly agreed in writing with Zenitel. Any authorized reproduction, in part or in whole, must include this legend; Zenitel – All rights reserved.

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 +85ºC
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	Plastic case
Protection	IP-55
Dimension	105 x 105 x 55 mm
Weight	Approx. 0.3 kg

Used With

www.zenitel.com info@zenitel.com Last revision date: 2023-07-31 23:40

Zenitel and its subsidiaries assume no responsibility for any errors that may appear in this publication, or for damages arising from the information therein. Zenitel products are developed and marketed by Zenitel. The company's Quality Assurance System is certified to meet the requirements in NS-EN ISO 9001. Zenitel reserves the right to modify designs and alter specifications without notice.

ZENITEL PROPRIETARY. This document and its supplementing elements, contain Zenitel or third party information which is proprietary and confidential. Any disclosure, copying, distribution or use is prohibited, if not otherwise explicitly agreed in writing with Zenitel. Any authorized reproduction, in part or in whole, must include this legend; Zenitel – All rights reserved.

Marine Master Clock 70000

123378-01 Marine Master Clock 70000

Marine Master Clock with Network Time Server

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

www.zenitel.com info@zenitel.com

Last revision date: 2023-07-31 23:40

Zenitel and its subsidiaries assume no responsibility for any errors that may appear in this publication, or for damages arising from the information therein. Zenitel products are developed and marketed by Zenitel. The company's Quality Assurance System is certified to meet the requirements in NS-EN ISO 9001. Zenitel reserves the right to modify designs and alter specifications without notice.

ZENITEL PROPRIETARY. This document and its supplementing elements, contain Zenitel or third party information which is proprietary and confidential. Any disclosure, copying, distribution or use is prohibited, if not otherwise explicitly agreed in writing with Zenitel. Any authorized reproduction, in part or in whole, must include this legend; Zenitel – All rights reserved.