

Seatex Seatrack VTS

A New DGPS Transponder for Marine Tracking

Seatrack VTS offers advanced DGPS transponder functionality and extended communication capabilities in one robust physical unit. Any number of Seatrack VTS transponders can be combined to create an ideal marine tracking solution especially when reliable position reports and message transfers are crucial. Powerful computing resources and open design results in unmatched flexibility for adaption to existing equipment.



Competing competence

Over the last decade, Seatex has successfully developed DGPS solutions for extremely demanding marine applications. In the middle of a rapidly evolving industry our independent position enables the selection of the most cost-effective and powerful GPS technology. One of the latest developments is the new Seatrack VTS transponder.

Tracking and communication

When linked together with a flexible and advanced communications solution, both GPS and DGPS provide an extremely powerful positioning. The Seatrack VTS allows transmission not only of DGPS data, but it also contains a fully-fledged communication module for the exchange of other application specific data. Even remote configuration of the transponder is possible.

With Seatrack VTS you will not be tied into a proprietary radio solution because existing radio infrastructures can be utilized. This is one of the reasons which makes Seatrack VTS a cost-effective solution. Examples of proven interfaces available in Seatrack VTS are GSM, UHF/VHF and MPT 1327/MAP 27.

Environmental challenges

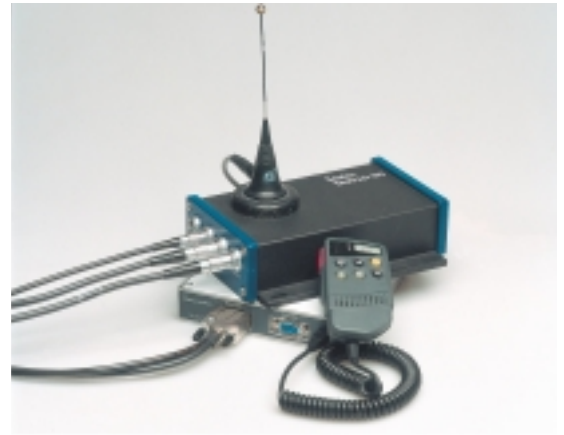
Equipment used in marine environments is exposed to extreme vibrations, corrosion and immersion. The Seatrack VTS has been designed to address these problems by utilizing a robust housing, a compact mechanical assembly and high quality connectors. Seatrack VTS is designed to withstand harsh environmental conditions to give the user years of fault-free operation.

Performance

A 12-channel, fast acquisition GPS receiver is embedded in the Seatrack VTS for superior availability of accurate positions even under the most difficult tracking conditions. A dual-channel radio-beacon receiver is also included to provide DGPS accuracy from licence-free IALA beacons. DGPS corrections from other sources can also be utilized by direct connection via cable.

Features

- Rugged DGPS transponder with integrated radio-beacon receiver
- Designed for harsh environmental conditions
- Flexible communication solution included
- Easy integration with ECS or other equipment through standard interfaces
- Low power consumption
- Remotely configurable
- One year hardware warranty



Technical specifications

General

- 12-channel, fast acquisition GPS receiver
- Dual-channel radio-beacon correction receiver
- Processor for advanced communication capabilities
- 2 x 10 pin connectors for power and interface to onboard equipment
- Customer specified modifications of internal software is available upon request

Performance

Differential accuracy	5 m RMS
Non-differential accuracy	100 m RMS, with nominal SA level
Dynamics	999 knots, 6 G
1 Hz position and velocity update	

Interfaces

RTCM SC104 v.2.1
NMEA 0183 v.2.2
MPT 1327/MAP 27
GSM
UHF/VHF
Proprietary protocol for status and control

Power

9-32V DC, 3.85W (12V DC)

Physical & environmental

Operating temperature	-20°C to +55°C
Vibration	EN 60945
Damp heat	EN 60945
Corrosion	EN 60945
Immersion	IP 65

Weights & dimensions

H x W x D	53 x 143 x 195 mm
Weight	975 g

Ordering information

Seatrack VTS	Part number G750-01
GPS antenna	Part number G700-05
IALA antenna	Part number G700-06
GPS antenna cable, 3 m	Part number G700-07
IALA antenna cable, 3 m	Part number G700-08
Signal and power cable (port 1)	Part number G700-09
Signal cable (port 2)	Part number G700-10

Specification subject to change without further notice

