



Saab TransponderTech



R3 Pilot Portable AIS Transponder System

The pilot case is using Saab TransponderTech's R3 AIS transponder as the main component. The portable transponder system has full AIS capability, such as:

- ✦ Tracking of own ship and AIS-transponder equipped ships on the ECS (Name, Position, Speed, Course, Heading, Destination, Size etc.
- ✦ ETA (Estimated Time of Arrival) functionality for own ship
- ✦ Logging of transponder data
- ✦ Receive differential corrections from shore based beacon system
- ✦ Continuous broadcast of own ship's Position, Speed, COG, GPS accuracy and other information to other ships and to Base Station
- ✦ Broadcast or addressed text messages to ship(s) and shore
- ✦ Receive text messages from ship(s) or from the VTS

The pilot case is carried on board as a self contained unit, incorporating an R3 AIS transponder, differential-GPS, rechargeable batteries, external (AC/DC) power supply for extended operation, wireless modem for

connection to a portable presentation system and a portable laptop* with electronic chart display system application*.

The pilot case is placed on the rail outside the wheelhouse, in a clear-view site, after removal of the laptop. The laptop as well as the pilot case are equipped with a spread spectrum radio modem for wireless data communication. The laptop on which the electronic chart system is running can freely be placed on the bridge without tangled cables.

The pilot case has a built in dGPS receiver with antenna. The GPS will start operating as soon as the top of the case has a clear view of the sky and power is applied. Differential corrections are supplied to the GPS from a built in beacon receiver that receives corrections from broadcasting 300 kHz radio beacons.

The pilot case can operate up to 7 hours without connection to external power. If extended operation is needed a connection can be made to the ships main power.

The supply is made with SELV (Safety Extra Low Voltage) from a AC/DC supply inside the ship.

Optional VHF antennas are available, such as whip, blade or groundplane.

* = Optional

Configuration

Rugged unbreakable (hard shell) plastic case, which is watertight to 10 meters.

Brackets for rail mounting.

R3 AIS vessel transponder for communication with the shore based network. The transponder contains VHF transceiver and communication processor, DGPS receiver and antenna unit.

Automatic differential beacon receiver and antenna unit.

Charging circuit and internal battery for 4 hours alternative 7 hours operation.

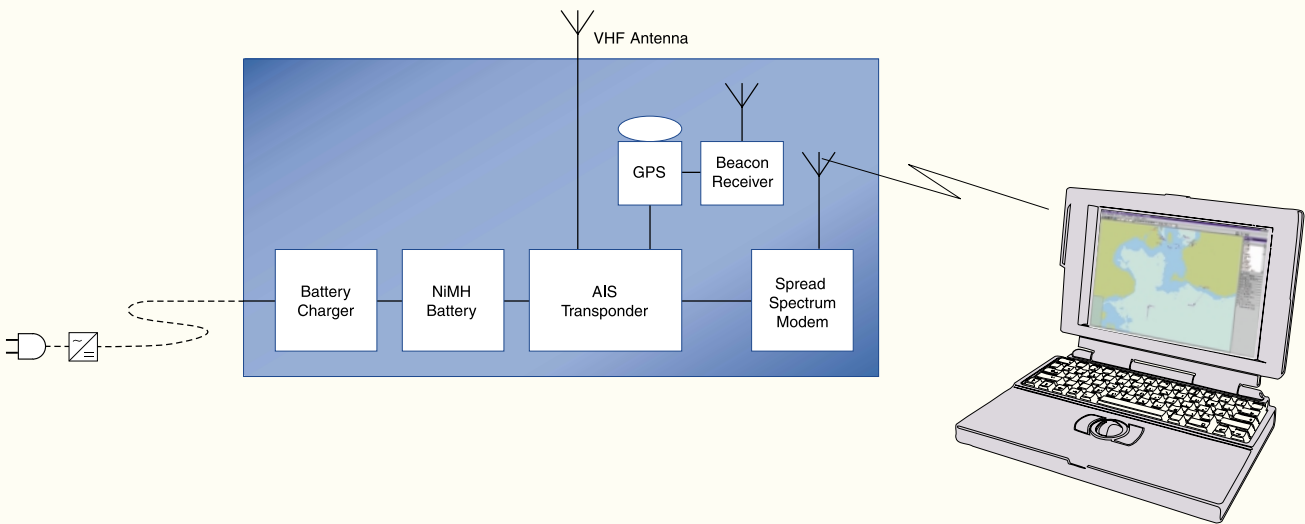
Power supply unit (AC/DC) for connection to power outlet in the wheelhouse with DC-cable for connection to the pilot bag placed outside the wheelhouse (10 meters).

Whip, blade or ground plane VHF antenna (including 10-meter cable for external mounting).

Laptop with electronic chart system software*.

Wireless spread spectrum connection (transponder – presentation system).

* = Optional



Physical	
Size WxHxD	380x265x165 mm
Colour	Orange
Weight	7 to 9 kg depending on configuration
Power	
Power supply	90 – 264 VAC (47 – 63 Hz) alt 24 VDC
Input power	40 watt maximum (charging of battery + transmitting)
Operation time	> 4 hours with 4 Ah batteries > 7 hours with 7 Ah batteries

Standards	
Safety	IEC 950
Radio type approval	ETS 300 113 TAS TS VHF-03 ETS 300 328 FCC (47 CFR) Part 15C, section 15.247

Presentation system	
Standard Laptop PC min Pentium II 233MHz, min 11" TFT Colour Display	
• Windows NT 4.0 • AECDIS 400 ECS or at client's requirement • S.57 charts	

Specifications subject to change without notice.

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Naga | Tryckhuset - 0009 - 2000

