



Thank you for choosing the R4 AIS Transponder System! This quick installation guide serves as a complement to the standard manuals found on the documentation CD. It is designed to give immediate access to essential information when executing an installation and a functionality test. **Installation of the R4 AIS System should always be carefully planned and executed by skilled personnel.**

Please visit our website for the latest news regarding this and our other shipborne products. Our website contains contact information to our dealers and service stations worldwide and much more.

For the complete manual set please see the included documentation CD.

Saab TransponderTech AB

www.saabgroup.com/transpondertech

RECOMMENDED PHYSICAL LOCATION

The Display unit should be available to the navigator at the position from which the ship is normally operated.

The Transponder unit should be installed as close as possible to its GPS and VHF antenna to minimize cable loss, preferably with the LEDs visible.

Temperature and humidity should be moderate and stable. Avoid areas with high flow of humid salt air, high levels of vibrations and shocks or high temperatures.

The display and transponder is interconnected through 4 double twisted pairs. (Transponder ↔ Display + Transponder ↔ Display integrated Pilot Plug). Signal cables may be extended should the standard 2 meter not be enough. Consult TransponderTech before altering any standard configurations (i.e. signal cable lengths).

VHF ANTENNA INSTALLATION

VHF radio frequencies propagation characteristics are close to line of sight. Installation will affect the transmitting and receiving capabilities. General recommendations for antenna placement to minimize the risk for interference and decreased range:

- ❶ Coaxial down-leads should be used with shielding screen connected to ground at one end.
- ❷ The VHF cable should not be installed close to high-power lines, such as radar or radio-transmitter lines, and at least 10 cm away from any power supply cables.
- ❸ The antenna should be mounted above or below other transmitter antennas with no horizontal separation and with a minimum of two meters vertical separation. If it is located on the same level as other antennas, the distance apart should be at least 10 meters.
- ❹ The antenna should be installed at least 3 meters away from interfering high-power energy sources, out of the way of the transmitting beam.
- ❺ The antenna should be placed in an elevated position, as free standing as possible, with a visible sky of 360° and minimum of 2°



meters in horizontal direction from objects made of conductive materials.

GPS ANTENNA INSTALLATION

The GPS antenna and its receiving capabilities is a crucial part of the system. The internal GPS is used for backup positioning but more important providing time to synchronize on the AIS VHF link. Follow these recommendations:

- ❶ Coaxial down-leads should be used with shielding screen connected to ground at one end.
- ❷ For optimum performance antenna UNA gain minus cable attenuation shall result in 10dB gain (9 to +26dB).
- ❸ The GPS antenna should have free horizontal observation 360° and vertical observation of 5° to 90°.
- ❹ Install GPS antenna at least 3 meters away from any transmitter antenna or its beam.

ALARM RELAY

It is required that the AIS alarm output (relay) is connected to an audible alarm device or the ship's alarm system, if available. Alternatively, the ship's BIT alarm system may use the alarm messages output on the AIS Presentation Interface (PI) provided the alarm system is AIS compatible. Alarm relay is standard in the J4 Junction box (optional).

PILOT PLUG

The pilot plug, for connecting the Personal Pilot Unit (PPU), is located on the front of the R4 Display and is connected to the transponder by a dedicated serial line. The installer may choose to also install a separate pilot plug. This pilot plug should be connected in parallel with the R4 Display pilot plug.

SYSTEM POWER UP

The R4 Transponder will start to operate when power is applied, it does not have a power switch. The R4 Display is turned on by pressing the POWER key, after applying power.

SYSTEM CONFIGURATION

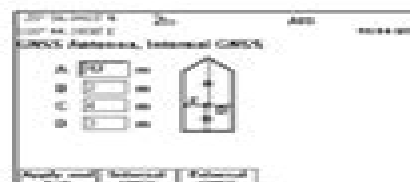
The installer is required to set the following parameters during installation of an AIS Class A system:

- MMSI number (Maritime Mobile Service Identity)
- IMO vessel number
- Call Sign (Radio Call Sign)
- Ship Name
- Height Over Keel
- Type of ship
- GPS antenna position(s) / Ship dimensions

Note: System default passwords are "user" and "admin"

SET SHIP DIMENSIONS

Note that the ship dimensions are derived from the GNSS antenna parameters. Dimensions are referenced to the position of the GPS antenna.



Saab Keys Quick Reference Guide

Mark Steyvers



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