



SAAB



R4A AIRBORNE AIS TRANSPONDER

The R4A from Saab TransponderTech represents the latest generation of airborne AIS transponders, using state of the art technology to achieve excellent performance, reliability and flexibility.

The R4A is developed specifically for airborne use, meeting the relevant requirements and standards for airworthiness. R4A can be installed either as a stand-alone unit or integrated with other on-board systems such as Mission Management Systems or Digital Map Generators.

Saab has been developing and producing military and commercial aircraft for more than 60 years, and the company has also a long tradition of integrating avionics. Based upon this knowledge and capability, every effort has been made to ensure the quality and reliability of the R4A. We can also offer our customers access to Saab's global after sales support organisation.

The R4A transponder is suitable for installation in a variety of aircraft, both aeroplanes and helicopters. The current applications vary from a stand-alone setup for a specific trial up to full integration into glass-cockpits. Installation of an R4A significantly improves the situational awareness in Search and Rescue (SAR) and surveillance operations, and it is also an efficient tool for fleet management. The R4A also supports encrypted communication using Saab's optional Secure AIS functionality.

R4A MAIN FEATURES

- Full transceiver functionality, the transmission capability makes it possible to interrogate specific vessels.
- Selectable level of AIS operational mode (Autonomous transmission, User initiated transmission or Receive only).
- ARINC 429 interface for TSO approved GPS.
- Embedded DSC support for reception and transmission of any DSC symbols.
- Easy configuration and status check by Windows based configuration software.

R4A AIRBORNE AIS APPLICATIONS

- Search and Rescue (SAR); locate vessels in distress and communicate with them while help is on the way.
- Monitoring of Surface Traffic; to be able to keep track of AIS equipped vessels and their destinations.
- Maritime Surveillance/Coast Guard Patrol; together with radar systems, naval authorities can find vessels without AIS or with faulty AIS parameters, thus increasing security.
- Homing for Maritime Helicopter Operations; find the ship that the helicopters are supposed to land on.
- Fleet Management; to keep track of a fleet of helicopters serving for example oil-rigs.
- Mission Control and Coordination; supports SAR and military operations involving several helicopters and vessels.

