



# SAAB



## R5 SOLID THE COMPACT AIS SOLUTION

The SAAB R5 SOLID AIS is our fifth generation transponder system, building on the success of the R4 AIS system, in operation on some 20,000 ships world-wide.

The R5 system features cutting edge digital radio technology, resulting from over five years of research on software defined radios. Sharing radio technology with military grade systems, the R5 technology is a big leap forward into the future of AIS radios.

The highly versatile R5 platform will continue to evolve as new requirements are introduced, and will stay at the forefront of AIS technology for many years to come.

The SOLID version of the R5 technology provides the user with a flexible, future proof product. It is easy to install and operate and has a variety of interfaces for connection to other systems.

### MAIN FEATURES

- Quick installation with single box solution
- 12 – 24 VDC power input
- Weather proof design
- Intuitive graphical user interface
- Integrated Pilot plug
- Colour display
- Support for USB peripherals
- RS-232 and RS-422 interfaces
- Light sensor for automatic dimming
- Compact design
- SART alarm
- SART test support
- Support for Inland AIS
- SRM and Binary Text messaging
- Quick SW upgrade from USB memory
- VHF communication test function
- Designed for ITU-R M.1371-5
- Gimbal or flush mounting



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## TECHNICAL SPECIFICATIONS

### PHYSICAL

Transponder Size W x H x D: 237x79x170 mm  
Weight: 2.20 kg

**POWER INPUT** 12/24 VDC

### POWER CONSUMPTION

Transponder 20 W (60 W peak);

### GPS RECEIVER (AIS INTERNAL)

50 channel  
Frequency: L1 (1575.42 MHz)  
Update rate: 1 Hz  
Antenna feed: 5 V DC

Position accuracy (SA off):  
Position <2.0 m DGPS (CEP)  
Position <2.5 m GPS (CEP)  
Sensitivity: Tracking -162 dBm, Cold Start -148 dBm

### ELECTRICAL INTERFACES

Back:	Front:
5 RS-422 I/O	Integrated RS-422 pilot plug
1 RS-232 I/O	USB 1.1
1 Digital In (Blue sign)	
Alarm Relay	

### VHF TRANSCEIVER

SDR Transceiver  
Frequency 156-163 MHz  
Output power 1/12.5 W ( $\pm 1.5$  dB)  
Sensitivity < -111 dBm

### ENVIRONMENTAL DATA

Designed for exposed environment (IEC 60945)  
Operating temperature: -15 °C to 55 °C

Specifications subject to change without notice

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