

GPS Receiver DGPS SAAB R5

**Attention:**

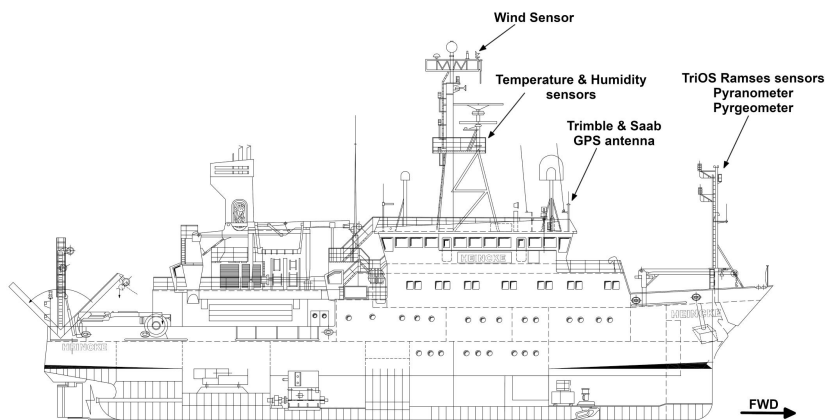
The DGPS SAAB R5 receiver is connected to the navigation system of RV Heincke and may only be used for scientific purposes in case of breakdown of the Trimble GPS receiver. In this case the serial connections of the GPS receivers to the scientific devices can be switch over by a manual switch on the bridge.

Summary

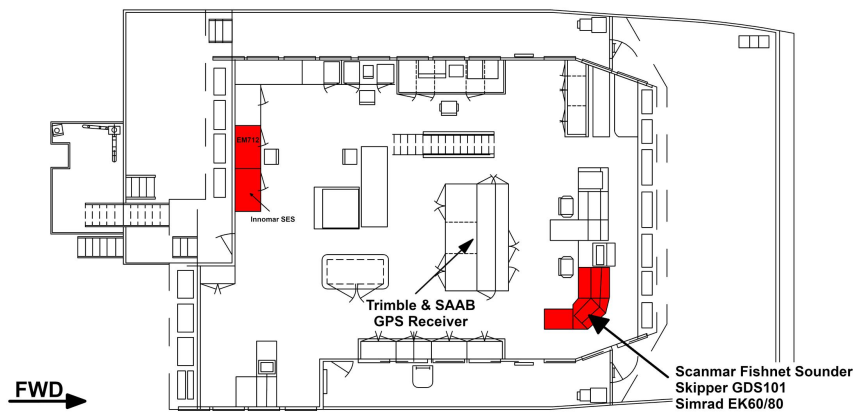
The DGPS SAAB R5 is a combined GPS, GLONASS, BeiDou and GALILEO receiver, with options for L1/L2/L5, L-Band and RTK operation with optional licenses or subscriptions. It is equipped with a MXB5 DGPS antenna.

Manufacturer	SAAB
Model	DGPS SAAB R5
Serial No.	100655-C1
Type	satellite positioning system
REGISTRY-Link	REGISTRY (8572)

Locations on RV Heinckes compass platform and masts

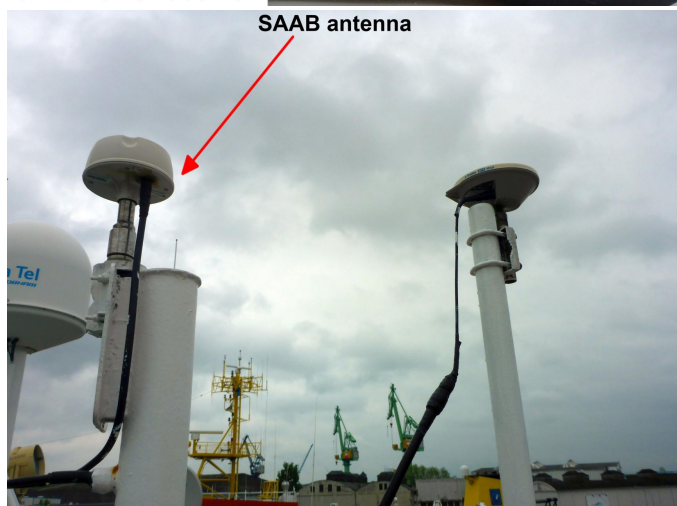


Locations on RV Heinckes bridge deck





SAAB GPS receiver



SAAB antenna

Contacts

Name	Institution	Role
Ralf Krockner	Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research	Engineer In Charge

Components

The GPS receiver is installed on the bridge deck. The antenna is installed on the observation deck.

No subdevices available.

Position

Info	xyz-position of antenna from Alignment Survey Report RV Heincke (January 2016). Antenna located on observation deck, device located on bridge deck.
X	38.938 m (Positive X axis is forward and along the centerline of the vessel with X0 at the Stern point of the vessel.)
Y	-2.11 m (Positive Y axis is portside of centerline with Y0 at centerline at the Very stern point of the vessel.)
Z	16.356 m (Positive Z axis is upwards of basis. Z0 is set to the hydrophone on midship.)

Data logging, storage and archiving

Logged parameters

Parameter	O2ARegistry Output Type	Unit
day	date and time	unknown
GPS quality indicator	quality flag	unknown
latitude	latitude	deg
longitude	longitude	deg
month	date and time	mo
number of satellites	index	number
speed over ground	speed	knot
year	date and time	a
course over ground	attitude	deg

Central geographical ship's position and time standard

Rawdata storage on board

DShip

Data archiving on land

Documentation

- [SAAB R5 datasheet \(Factsheet, 652 kB\)](#)
- [SAAB SupremeAIS manual \(User Manual, 5 MB\)](#)