

Dual Axis Doppler Log (DO Log)

**Attention:**

The Doppler Log (DO Log) is part of nautical equipment. The operation belongs to the bridge only.

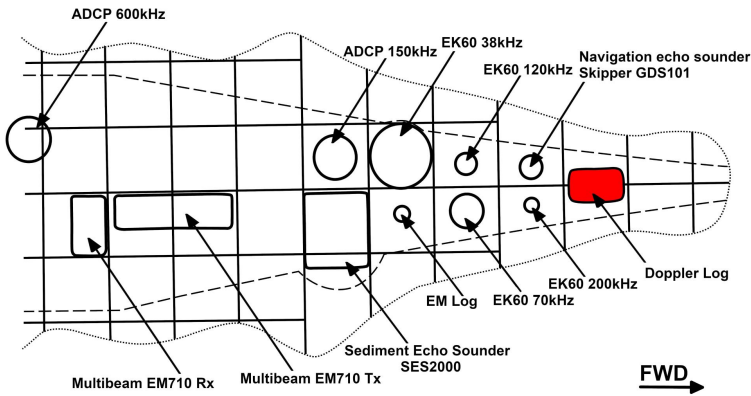
Summary

The Doppler log measures speed through water by using the Doppler effect of sound signal reflected from the seafloor or from suspended matter in the water column. Wärtsilä SAM 4682 transducer consists of a total of 3 hydro-acoustic elements of 270 kHz.

Manufacturer	Wärtsilä SAM Electronics
Model	SAM4682
Serial No.	n/a
Type	acoustic doppler velocimeter
REGISTRY-Link	REGISTRY (1620)



Position of devices in RV Heinckes keel



Transducer Frequency

Contacts

Name	Institution	Role
Reederei Briese	Briese Schifffahrts GmbH & Co. KG	Engineer In Charge

Components

The system consists of a transducer with 3 hydro-acoustic elements installed in the ship's keel. It is operated from the bridge.

No subdevices available.

Position

Info	xyz-position of transducer from Alignment Survey Report RV Heincke (January 2016). Electronics and operation on bridge deck.
X	47.221 m (Positive X axis is forward and along the centerline of the vessel with X0 at the Stern point of the vessel.)

Y	-0.017 m (Positive Y axis is portside of centerline with Y0 at centerline at the Very stern point of the vessel.)
Z	-0.074 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
longitudinal ground speed	speed	knot
longitudinal water speed	speed	knot
transverse water speed	speed	knot
transverse ground speed	speed	knot

Central geographical ship's position and time standard

Rawdata storage on board

DShip

Data archiving on land

Documentation

- [SAM4862 datasheet \(Factsheet, 635 kB\)](#)