

Dual Axis Doppler Log (DO-Log)



Attention:

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

The new DO-Log system was installed in December 2017.

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. Two transducer are installed in the ships keel and can be alternatively used. Hydroacoustic frequency amounts to 270 kHz.

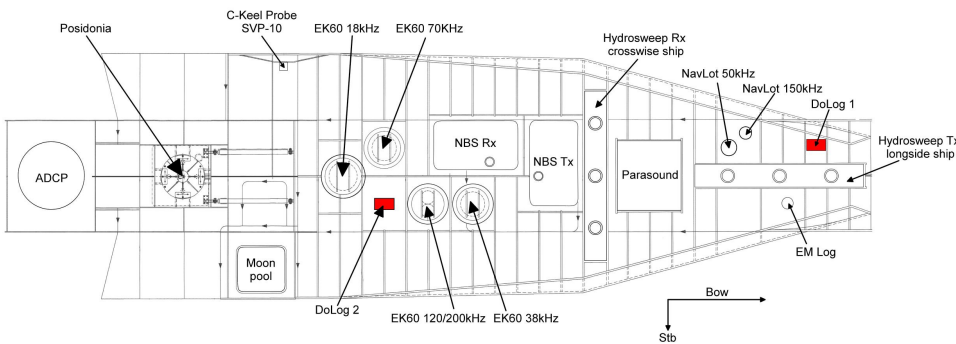
Manufacturer	Skipper Electronics A/S
Model	DL850
Serial No.	Transducer 1 S/N: 17889, Transducer 2 S/N: 17895
Type	speed log
REGISTRY-Link	REGISTRY (626)

DL850 System Components



DL850 270kHz transducer

Position of Devices in Polarsterns box keel



Transducer Frequency:

Contacts

Name	Institution	Role
Reederei Laeisz	F. Laeisz	Engineer In Charge

Components

Subdevices

Name	Model	Serial Number	REGISTRY-Link
DOLOG_1A transducer	DOLOG	n/a	REGISTRY (1442)
DOLOG_1B transducer	DOLOG	n/a	REGISTRY (1443)
DOLOG_2 transducer	DOLOG	n/a	REGISTRY (1444)

Position

Info	xyz-position calculated from Alignment Survey Report RV Polarstern (June 2016), transducer located in box keel, electronics located on F-deck room F632
X	69.366 m (X-0 is at the center of der rudder (ref. design drawing of the vessel), positive X-axis is forward and along vessel centerline)
Y	0.415 m (Y-0 at centerline, positive Y-axis is portside)
Z	0.014 m (Z-0 is set to the lowest point of the keel, positive Z-axis is upwards)

Data logging, storage and archiving

Logged parameters

Parameter	O2ARegistry Output Type	Unit
speed bottomtrack across	speed	knot
speed bottomtrack ahead	speed	knot
speed watertrack across	speed	knot
speed watertrack ahead	speed	knot

Central geographical ship's position and time standard

Rawdata storage on board

Dship

Data archiving on land

Documentation

- [DoLog DL850 Brochure \(Factsheet, 982 kB\)](#)
- [Doppler Log DL850 manual \(User Manual, 11 MB\)](#)