


Navigation Echo Sounder

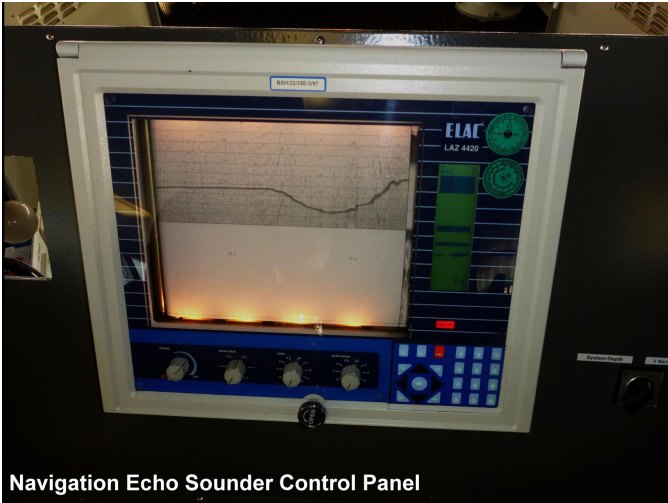
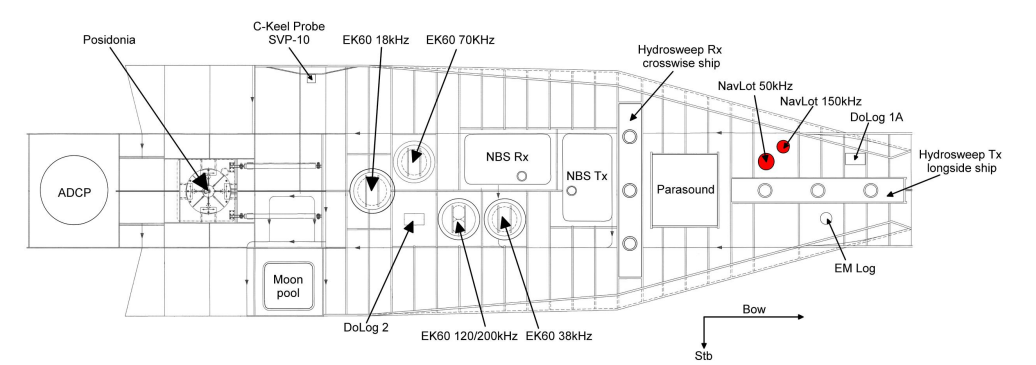
**Attention:**
The Navigation Echo Sounder is operated by ship's command only.

Summary

The navigation echo sounder delivers depth information in order to avoid grounding and ensure save ship navigation.

Manufacturer	Wärtsilä ELAC Nautik GmbH
Model	LAZ 5100
Serial No.	n/a
Type	not assigned
REGISTRY-Link	REGISTRY (1403)

Position of Devices in Polarsterns box keel



Transducer Frequency:

Contacts

Name	Institution	Role
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Reederei Laeisz	F. Laeisz	Engineer In Charge
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Components

Subdevices

Name	Model	Serial Number	REGISTRY-Link
Nav_Lot_150kHz transducer	LAZ5100	n/a	REGISTRY (1440)
Nav_Lot_50kHz transducer	LAZ5100	n/a	REGISTRY (1441)

Position

Info	xyz-position calculated from Alignment Survey Report RV Polarstern (2016), transducers located in box keel, electronics located on bridge
X	78.095 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	0.627 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
depth	depth	m

Central geographical ship's position and time standard

Rawdata storage on board

Dship

Data archiving on land