

Speed Log & Echo Sounder
STW & DPT

SAL RE200

**Digital and cost-efficient.
With precision beyond
requirements.**



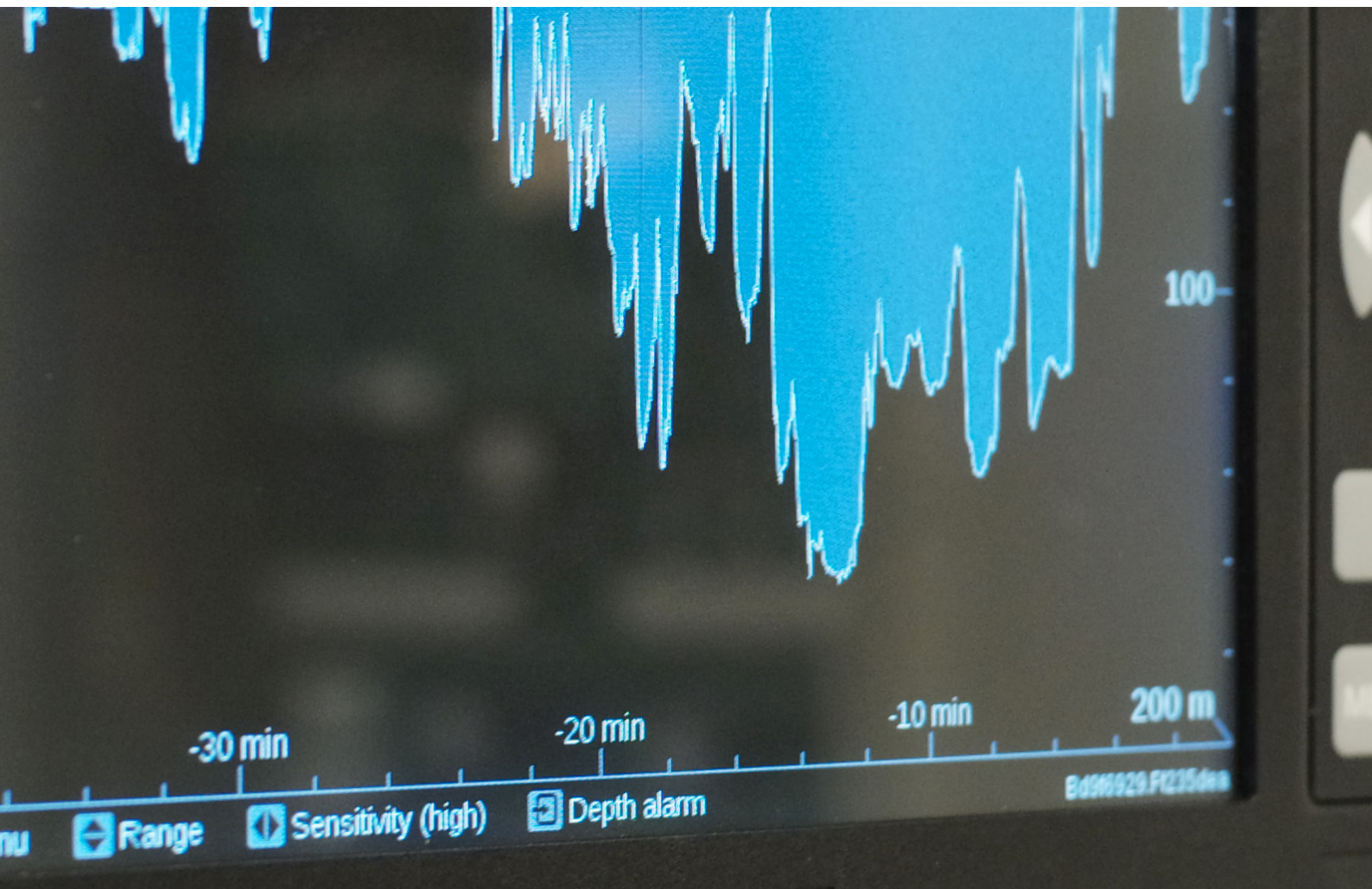
SAL NAVIGATION

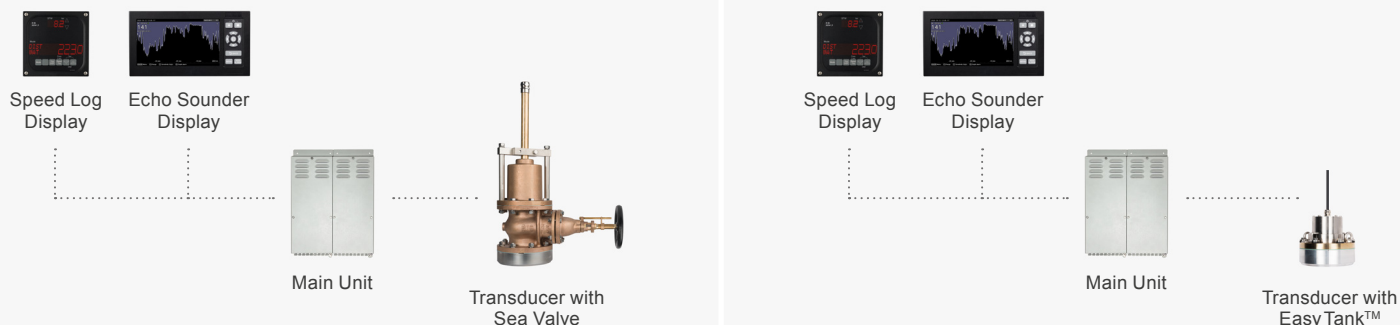
**Combining
Speed Through
Water and Depth
measurement
in a small and
innovative
system for
maximum cost-
efficiency.**



Easier cable handling. Low-power digital signals to and from the transducer means the cable does not interfere, and that it may be cut or extended with a junction box without decreased performance. Thus enabling easier and faster cabling work.

In-depth graphics. As complement to our well-known speed log display we introduce a new, marine rugged echo sounder display, with clear graphics and intuitive functions.





Capabilities

For the new SAL RE200 combined Speed Log and Echo Sounder we have used advancements in hardware, electronics and signal processing to place more functionality in the transducer itself. Not only does it contain speed and depth measurement capabilities in the same transducer, it also communicates digitally using low-power signals, enabling easy and flexible cabling.

The inventive solutions used in SAL RE200 make installation really cost-efficient, and give highly accurate speed-through-water and depth measurements, exceeding requirements. Thanks to the low-power digital communication and smart acoustic signal sequences, measurement accuracy is increased while disturbance on the surroundings is greatly reduced – both on board the vessel through practically no electromagnetic interference, and in the water through lower sound pressure, making a positive impact on the environment.

Standards

The system fulfills all necessary regulations, test and performance standards:

- IMO Resolution A.824(19)
- IMO Resolution MSC.74(69) Annex 4
- IMO Resolution A.224(VII)
- IMO Resolution A.694(17)
- IMO Resolution MSC.191(79)
- IMO Resolution MSC.302(87)
- ISO 9875:2000 incl. ISO Tech. Corr. 1:2006
- IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)
- IEC 61162-1 Ed. 5.0 (2016-08)
- IEC 61162-450:2018
- IEC 62288 Ed. 2.0 (2014-07)
- IEC 62923-1 Ed. 1.0 (2018-08)
- IEC 62923-2 Ed. 1.0 (2018-08)

Key Figures

Speed Through Water	
Speed range	0 – ±50 knots longitudinal sensed water speed
Speed inaccuracy	0.1 knots or 1%, whichever is greater
Distance inaccuracy	< 1% of travelled distance in water
Minimum water depth	3 meters below transducer
Depth	
Depth range	2 – 200 m
Depth inaccuracy	2 m – 50 m: 0.1 m 51 m – 200 m: ±5 m or ±2.5 %

Inventive, accurate and reliable.

The combined Speed Log and Echo Sounder SAL RE200 is designed and built to exceed expectations in terms of installation cost-efficiency as well as signal measurement robustness and ease-of-use.

Choose between a traditional Sea Valve or EasyTank™ (as seen here in the picture), approved by DNV as a closed-ended installation.



System Components

Standard



Height: 402 mm
Width: 298 mm
Depth: 58 mm
Weight: 5.2 kg

Main Unit

Operating voltage 100-230 VAC. The Main Unit contains two independent units, one for speed through water and one for depth measurement.



Height: 155 mm
Width: 288 mm
Depth: 41 mm
Weight: 1.7 kg

Echo Sounder Display (ESD4)

Operating voltage 24 VDC. Presents current and historical depth. Built-in buzzer for shallow alarm. Contains an intuitive menu system with quick access to settings and view modes.



Height: 144 mm
Width: 144 mm
Depth: 16 mm
Weight: 0.6 kg

Display (SD4-3)

Operating voltage 24 VDC. Presents longitudinal speed through water and distance measurement. More than one display may be connected to the system if needed.



Height: 255 mm
Diameter: 122 mm
Weight: 23 kg (40 m)

Transducer (for Sea Valve) *

With multiple sensors capable of both water tracking and depth measurement. Supplied with a 10 m or 40 m low-level digital signal cable that may be cut to facilitate efficient installation and maintenance.



Height: 735 mm
Width: 575 mm
Diameter: 250 mm
Weight: 75 kg

Sea Valve *

The sea valve provides retraction of the transducer without dry-docking or diver assistance. Suitable both for single and double bottom hull. Flange diameter 250 mm.



Height: 198 mm
Diameter: 200 mm
Weight: 8.5 kg (10 m)
+ 16 kg (steel)

EasyTank™ (with built-in transducer) *

Supplied with a 10 m or 40 m low-level digital signal cable that may be cut to facilitate efficient installation and maintenance. The transducer is fixed to the upper bronze part. With multiple sensors capable of both water tracking and depth measurement.

*) Choose between Sea Valve or EasyTank™.

Optional



Height: 144 mm
Width: 144 mm
Depth: 16 mm
Weight: 0.6 kg

General Display (SD4-4)

Operating voltage 24 VDC. Used as additional display for any system. Configured as desired to present available information, for example speed, distance, depth, etc.



Height: 194 mm
Width: 144 mm
Depth: 35 mm
Weight: 0.8 kg

Bulkhead Mounting Box

Displays (SD4 series) can be mounted directly on an indoor or outdoor bulkhead by using this box. IP66.



Height: 144 mm
Width: 48 mm
Depth: 29 mm
Weight: 0.2 kg

Dimmer


Used to dim an SD4 series display from a remote position. Additional displays can be connected to the same dimmer.



Height: 48 mm
Width: 144 mm
Depth: 8 mm
Weight: 0.2 kg

Remote Control

Used to access the SD4 series display buttons from a remote position.



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Log and Echo
Sounder
combination
system – built for
accuracy and
cost-efficiency.**

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SAL NAVIGATION