Speed Log & Echo Sounder STW & DPT

SAL RE200

Unmatched Performance –
Superior Accuracy, Cost-efficient
and Sustainable Design

SAL NAVIGATION

Experience Superior Precision with SAL RE200 – Designed for Cost-efficiency and the Protection of Marine Ecosystems

We innovate to make a difference, creating speed logs and echo sounders with superior precision that minimize environmental impact. Our innovative technology utilizes:

- Low-power acoustic signals minimizing disruption to marine life.
- Combined sensor design, requiring less steel and hull modifications during installation.
- Low-power digital communication, significantly reducing energy consumption.

The result is a range of speed logs and echo sounders that are not only highly accurate and environmentally friendly but also more efficient to install, lowering the overall carbon footprint of the vessel from the installation phase onward.

SAL RE200

Unmatched Performance – For the Future of Maritime Navigation
Built on decades of research and development, with precision that exceeds IMO requirements, SAL RE200 is a combined speed log and echo sounder in a compact, innovative system. Delivering unparalleled measurement accuracy, SAL RE200 sets a new standard in sustainable maritime technology—designed for cost-efficiency and environmental protection.

Key Capabilities:

- **Compact Dual Functionality:** SAL RE200 combines speed and depth measurement in one compact transducer, reducing equipment needs and boosting cost-efficiency.
- **Digital, Low-power Communication:** Advanced low-power digital communication allows flexible cabling, lowering power use while ensuring reliable data transmission.
- **Unparalleled Accuracy:** SAL RE200 offers exceptional accuracy in speed and depth measurements, exceeding IMO standards.
- **Optimized Installation for Fuel- and Cost-efficiency:** Minimal hull modifications and flexible cabling enhance fuel efficiency and performance, while reducing installation costs and downtime.
- **Minimal Environmental Impact:** Low-power signals and intelligent acoustic sequences minimize sound pollution, protecting marine life.
- **Compliance and Certifications:** Fully certified to meet all current regulations, IMO and IEC standards. Multiple class approvals.

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	
Range	5, 10, 20, 40, 60, 100, 200, 400, 800 m
Draft adjust	100 m in 0.1 m steps
Auto function	Gain, Range, Sensitivity
History function	24 hours with 3 sec resolution
Measuring range	Typical 0.5 to 200-300 m on 200 kHz, 1 to 400-800 m on 50 kHz depending on salinity and seabed properties.
Accuracy	0.1 m for depths less than 20 m

Speed Log Display

Echo Sounder Display

Main Unit

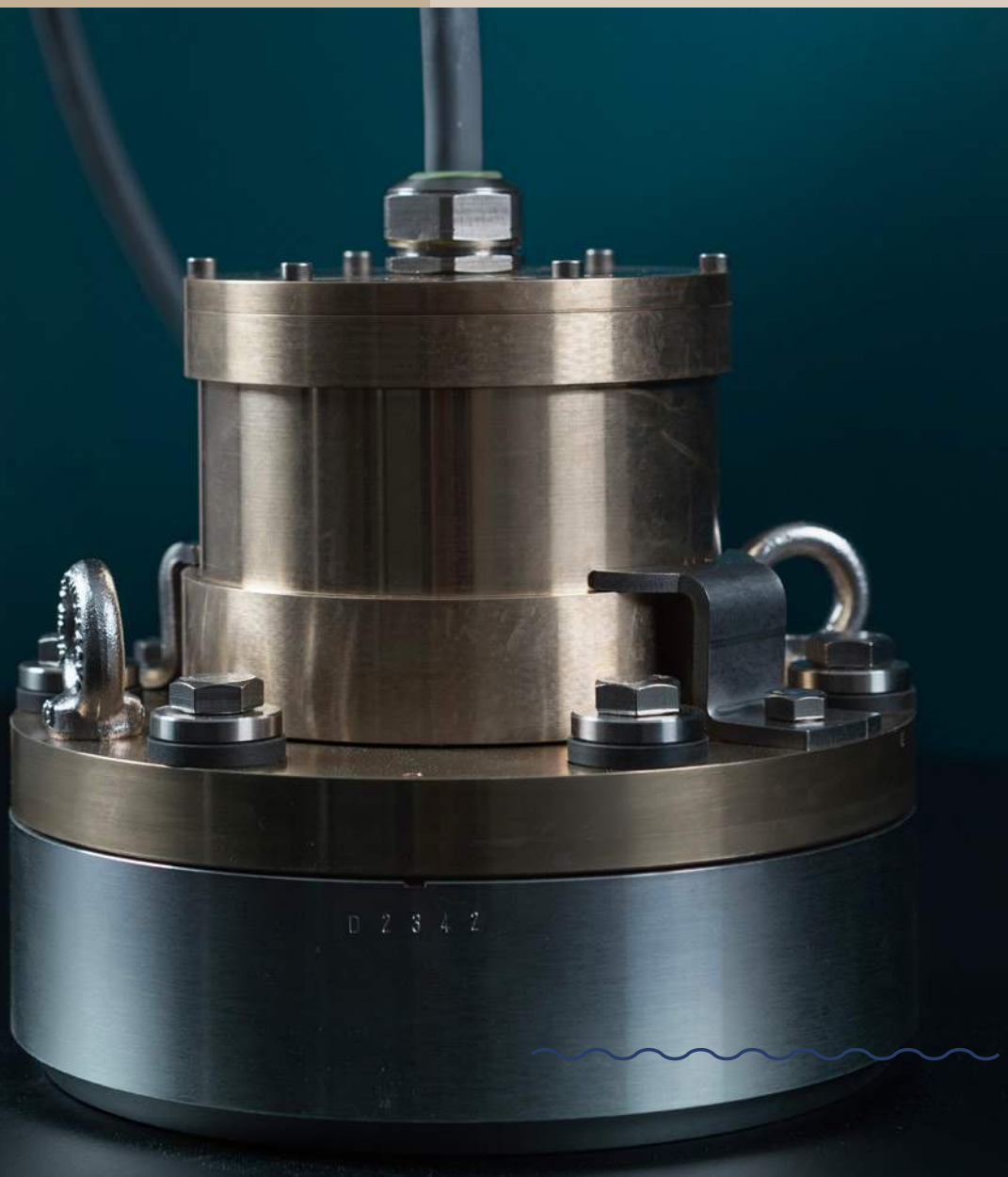
Transducer with Sea Valve

Speed Log Display

Echo Sounder Display

Main Unit

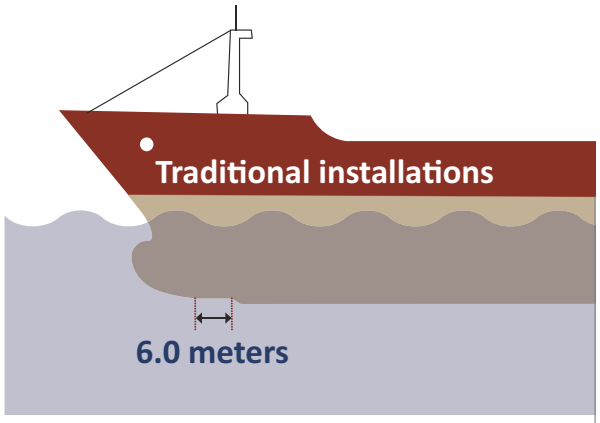
Transducer with Easy Tank™



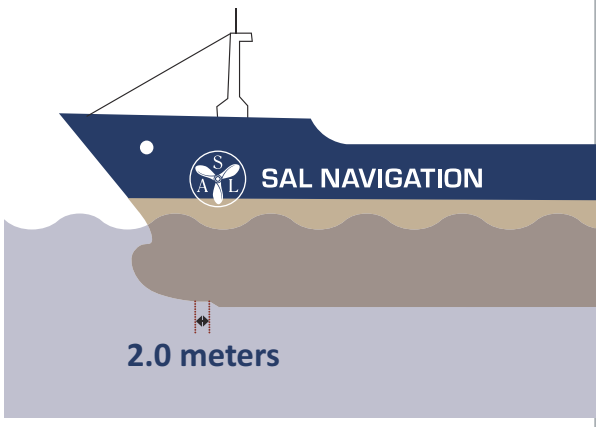
Smarter and Greener: Enhance Fuel Efficiency And Optimize Operations

Sustainable operations start with our speed logs and echo sounders. The installation of our combined transducers requires minimal hull modification, leading to improved fuel efficiency and optimized vessel performance.

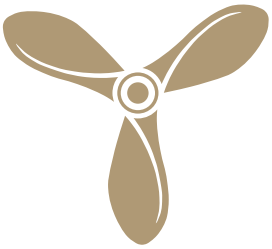
The Difference Between Traditional Sensor Installations and our Innovative Combined Sensor Approach:



Typical installation with multiple sensors, requiring a larger flattened area on the hull, approximately **6 meters in length**. This configuration often includes separate sensors for speed-through-water, speed-over-ground, and echo sounding.



SAL Navigation's combined sensor installation is key to delivering superior efficiency. Requiring a flattened area of only about **2 meters**, this reduced hull modification is central to the benefits of our solutions.



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.

Standard

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
Width: 122 mm
Depth: 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
Depth: 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
Width: 200 mm
Depth: 8.5 kg (10 m)
Weight: + 16 kg (steel)

Easy Tank* (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 Easy Tank.

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.

Product images not to scale, please refer to actual measurements.
For more technical details, please see separate datasheets.

Navigation Towards a Sustainable Future

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