

Echo Sounder DPT

# SAL E200



Cost-efficient and Innovative:  
Superior Accuracy that  
Protects Marine Life



SAL NAVIGATION





# Highly Accurate and Sustainable Design

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

- Low-power acoustic signals, minimizing disruption to marine life.
- Low-power digital communication, significantly reducing energy consumption.

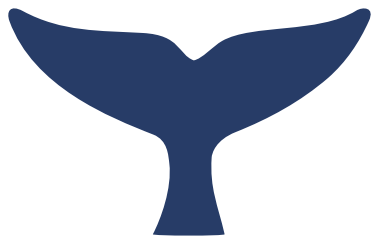
SAL Echo Sounders are not only highly accurate and environmentally friendly, but also more efficient to install.



# SAL E200

## Designed to Deliver Exceptional Accuracy

SAL E200 echo sounder exceeds IMO requirements while offering a cost-efficient installation process. With unparalleled measurement accuracy, SAL E200 sets a new standard in sustainable maritime technology, with a design that optimizes costs while protecting marine ecosystems.



## Key Capabilities:

- **Unparalleled Accuracy:** SAL E200 delivers unparalleled accuracy in depth measurements, exceeding IMO performance standards.
- **Digital, Low-power Communication:** The system utilizes advanced low-power digital communication, allowing for easy and flexible cabling. This reduces power consumption while maintaining reliable data transmission, ensuring efficient and effective operation over time.
- **Minimal Environmental Impact:** By using low-power signals and intelligent acoustic sequences, the system minimizes sound pollution in the water. This not only ensures a quieter vessel environment but also helps protect marine life by reducing disturbance to underwater ecosystems.
- **Compliance and Certifications:** Fully certified to meet all current regulations, IMO and IEC standards. Multiple class approvals.

## Key Figures

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



Echo Sounder  
Display



Main Unit



Transducer with  
Sea Valve



Echo Sounder  
Display



Main Unit



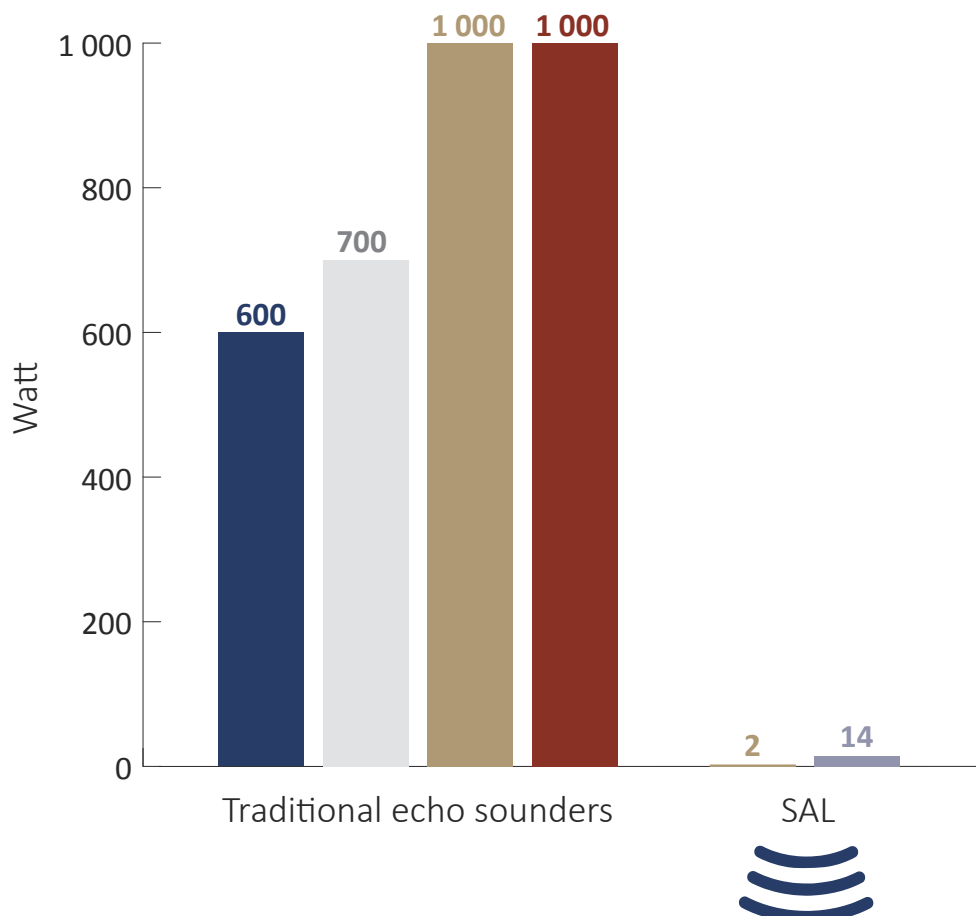
Transducer with  
EasyTank™



# Silent and Sustainable Technology

The graph illustrates the stark difference in power output between our echo sounders and traditional echo sounders. While standard echo sounders typically operate at 600-1000 watts, our SAL Navigation sensors function at just 2-14 watts. This dramatic reduction in power consumption- up to 99% less- translates to significantly lower energy use and reduced environmental impact, all while maintaining superior performance and accuracy.

## Output Power





# System Components

## Standard



Height: 402 mm  
Width: 148 mm  
Depth: 58 mm  
Weight: 2.6 kg



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



Height: 255 mm  
Width: 122 mm  
Depth: 23 kg (40 m)

### Main Unit

Operating voltage 100-230 VAC. The Main Unit contains a module for depth measurement.

### 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.

### Transducer\* (for Sea Valve)

With depth measurement sensors. 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



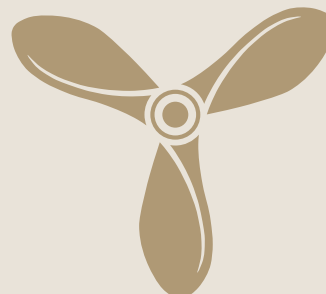
Height: 198 mm  
Width: 200 mm  
Depth: 8.5 kg (10 m)  
Weight: + 16 kg (steel)

### 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.

### 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 depth measurement sensors.



\*) Choose between Sea Valve or Easy Tank.

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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**SAL NAVIGATION**