

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



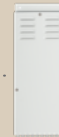
Main Unit



Transducer with Sea Valve



Echo Sounder Display



Main Unit



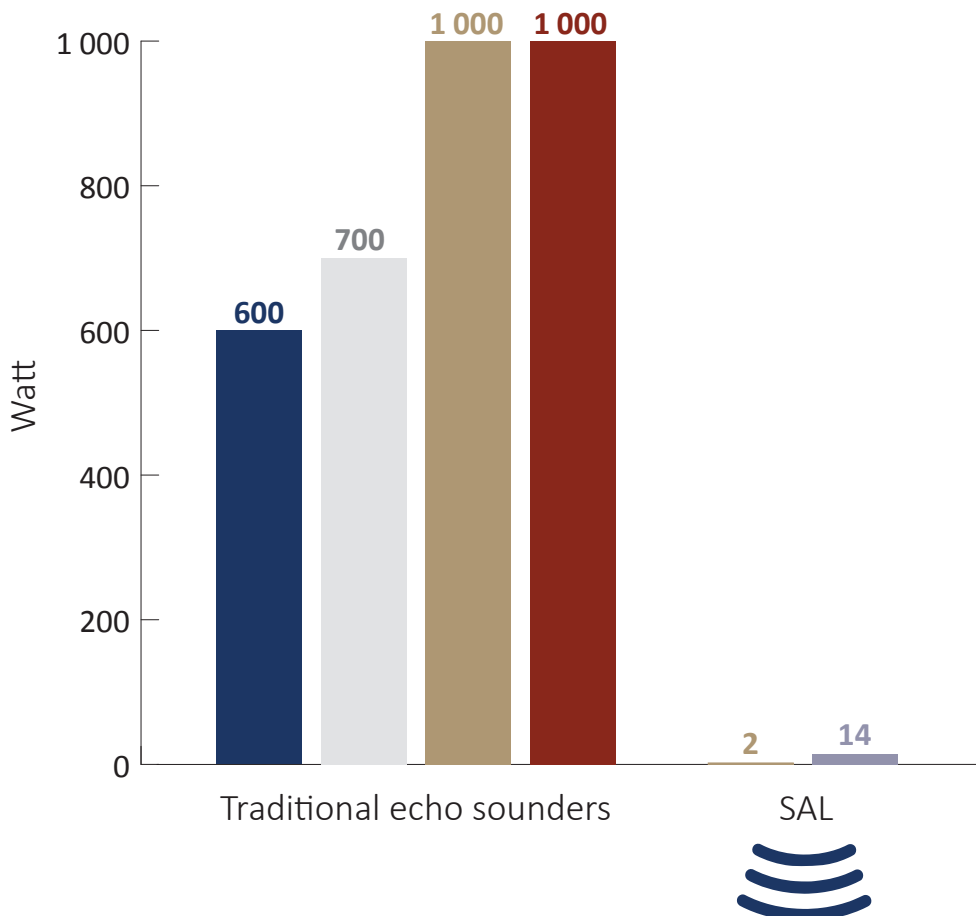
Transducer with EasyTank™



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

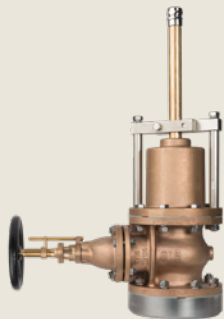
Operating voltage 100-230 VAC. The Main Unit contains a module for depth measurement.

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



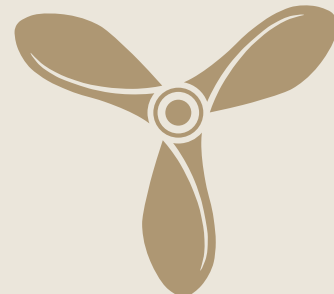
Height: 198 mm
Width: 200 mm
Depth: 8.5 kg (10 m)
Weight: + 16 kg (steel)

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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