

Speed Log
STW & SOG

SAL T200

Accurate measurements.
Flexible and cost-efficient.



SAL NAVIGATION

Speed Through Water and dual axis Speed Over Ground in one single transducer for cost-efficient installation and maintenance.

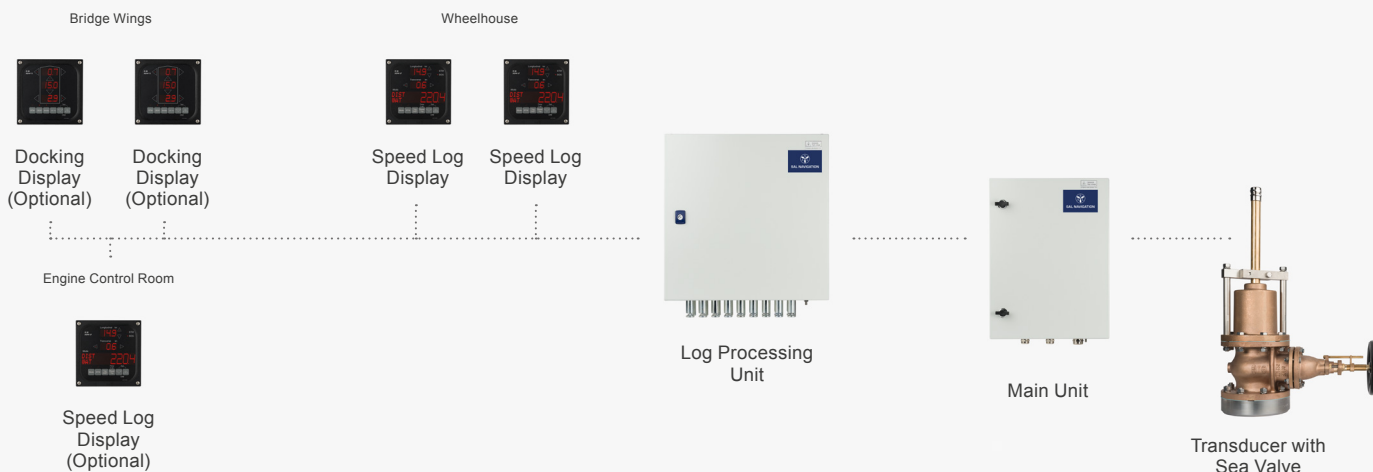


Display options. In addition to the speed log displays installed as standard, SAL T200 offers the possibility to add docking log displays, analog displays, and more.

All-in-one. A sophisticated all-in-one transducer measures all the necessary parameters through only one (1) hull penetration, saving time during installation and occasional maintenance.



System Overview



Capabilities

SAL T200 is a Dual Axis Speed Log and Docking Log designed for vessels above 50 000 GT and those requiring both SOG and STW functionality.

Since the all-in-one transducer is capable of both water and bottom tracking, SAL T200 requires only one hull penetration and only one transducer cable to be pulled, making both installation and maintenance quick and cost-efficient.

SAL T200 is a very small, efficient system with few parts, built on modules with great capabilities. It can easily be expanded with more displays and with docking log functionality (by simply adding a gyro signal).

The measurement accuracy is very high thanks to the unique acoustic correlation technology, making SAL T200 a reliable instrument under any circumstances at sea.

Standards

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

IMO Resolution A.694(17)

IMO Resolution A.824(19) as amended by
IMO Resolution MSC.96(72) and
IMO Resolution MSC.334(90)

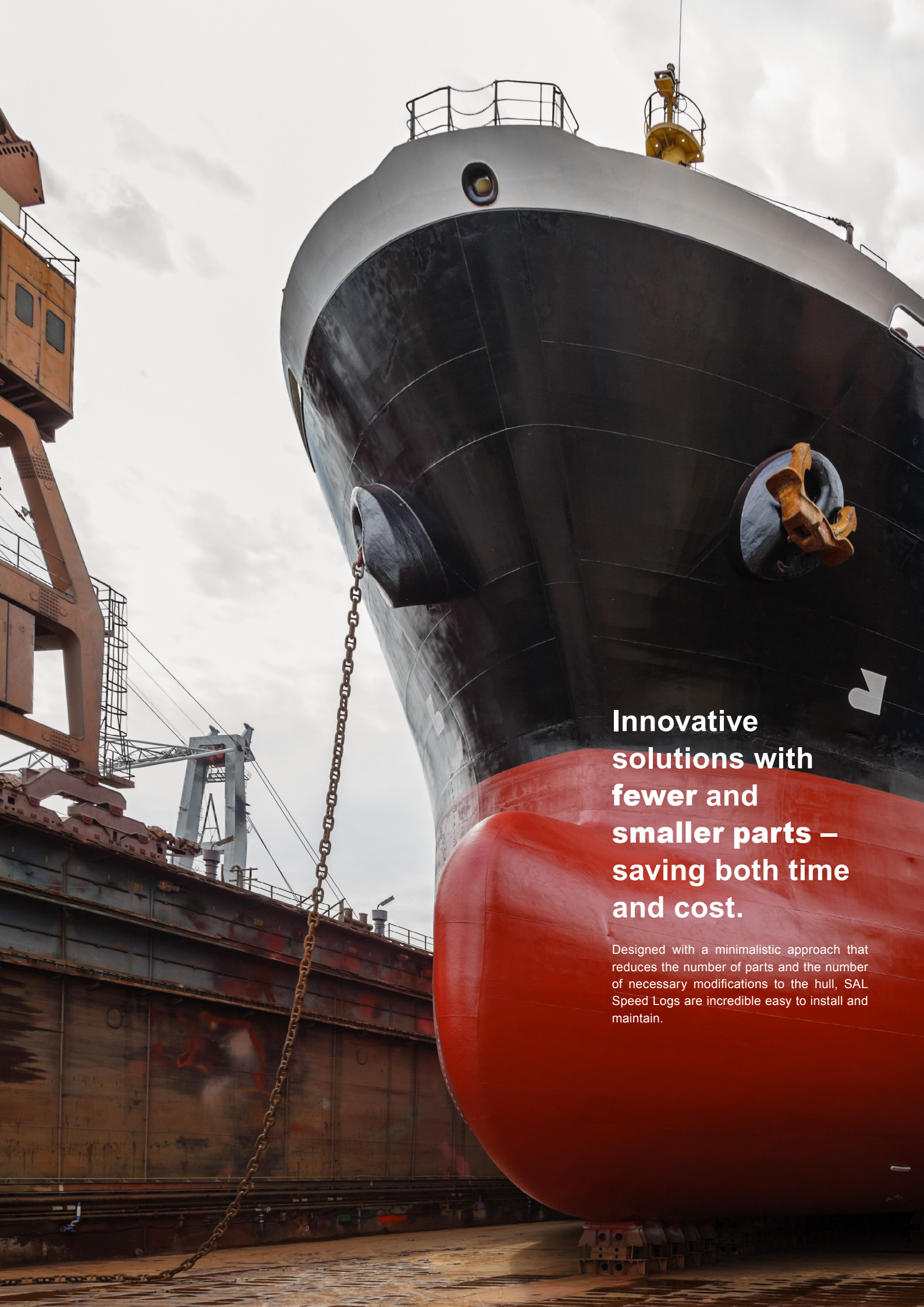
IMO Resolution MSC.191(79)
IMO Resolution MSC.302(87) *

IEC 61023 Ed. 3.0 (2007-06)
IEC 60945 Ed. 4.0 (2002) incl. Corr. 1 (2008)
IEC 61162-1 Ed. 5.0 (2016-08)
IEC 62288 Ed. 2.0 (2014-07)
IEC 62923-1 Ed. 1.0 (2018-08) *
IEC 62923-2 Ed. 1.0 (2018-08) *

*) The equipment is not capable of issuing alerts.

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
Speed Over Ground	
Speed range	0 – ±40 knots in any direction
Speed inaccuracy	0.1 knots or 1%, whichever is greater
Distance inaccuracy	2 – 10 NM: ±0.2%, 10 – 50 NM: ±0.1%, > 50 NM: ±0.05%
Depth range	2 – 250 metres below transducer
Docking Log (Optional)	
Bow and Stern transversal SOG inaccuracy	0.1 knot (provided ROT gyro zero drift < 0.3°/min)



**Innovative
solutions with
fewer and
smaller parts –
saving both time
and cost.**

Designed with a minimalistic approach that reduces the number of parts and the number of necessary modifications to the hull, SAL Speed Logs are incredible easy to install and maintain.

System Components

Standard



Height: 480 mm
Width: 360 mm
Depth: 240 mm
Weight: 18 kg

Main Unit

Operating voltage 100-230 VAC. The Main Unit contains two independent units, one for speed through water and one for speed over the ground measurement. The speed data calculated is sent as serial NMEA messages for further processing in the Log Processing Unit or directly to any other receiver.



Height: 500 mm
Width: 500 mm
Depth: 200 mm
Weight: 20 kg

Log Processing Unit

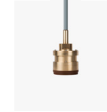
Operating voltage 100-230 VAC. This unit receives data from the Main Unit and also ROT from a gyro when connected. The data is processed and distributed to displays and other external equipment, such as Radar, AIS, VDR etc. Preferably installed in the equipment room close to the wheelhouse.



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

Speed Log Display (SD4-2)

Operating voltage 24 VDC. Shows Dual-axis SOG and longitudinal STW, as well as distance. Two of these displays are used as standard; one as STW master display and one as SOG master display. Additional displays can be connected.



Height: 208 mm
Diameter: 122 mm
Weight: 23 kg (30 m)

Transducer

With multiple sensors capable of both water and bottom tracking. Supplied with a 30, 40 or 50 meters cable.



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.

Optional



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

Docking Display (SD4-5)

Operating voltage 24 VDC. Displays transverse SOG of bow and stern and longitudinal SOG. If docking log displays are used, a ROT signal from the gyro shall be connected to the system.



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: 148 mm
Width: 148 mm
Depth: 99 mm
Weight: 0.5 kg

Analog Display (SIA-3-8)

Operating voltage 24 VDC. Intuitive speed indicator that can be used for STW or SOG. Range: 0-30 knots ahead, 0-8 knots astern.



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 a 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 display buttons from a remote position.

**SAL Speed
Logs – built for
the future upon
decades of
experience.**



SAL Navigation AB
Hägersten, Sweden
+46 8 563 05 100
sales@salnavigation.com
www.salnavigation.com



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