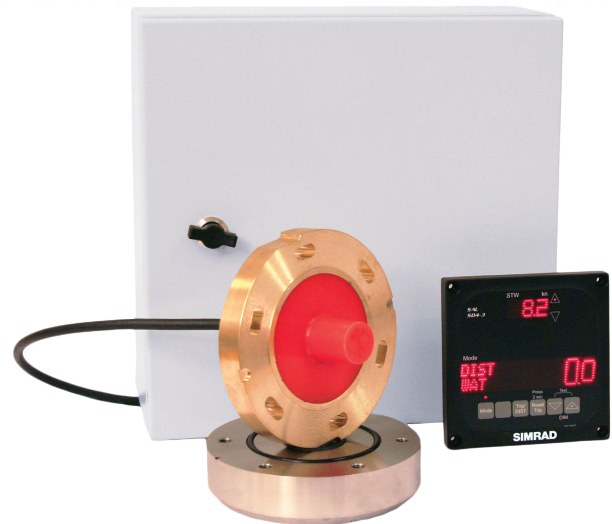


SIMRAD

SAL R1A Speed Log

The SAL R1a is an IMO type-approved speed log for measuring longitudinal speed through water (STW), based on proven Acoustic Correlation technology.

The speed log is designed to meet requirements as specified by authorities and ship owners, with performance exceeding applicable IMO specifications. Its closed-ended installation is simple and cost-effective, with no need for a watertight compartment or piping above the waterline.



FEATURES

- High performance due to proven Acoustic Correlation technology
- Flexible calibration allows highly accurate readings throughout the speed range
- Easy set-up and calibration from the bridge display
- Easy to install with only a few mechanical parts, lightweight bottom arrangements, and transducer mounting from inside the hull
- Space saving with compact bottom arrangements
- Safe due to a rugged mechanical design and watertight cable
- Closed ended installation means no need for a watertight compartment or piping above the waterline
- Pressure tested and approved according to PN16 (24 bar, 240 m)
- Complies with IMO resolution A.824(19)



SPECIFICATIONS

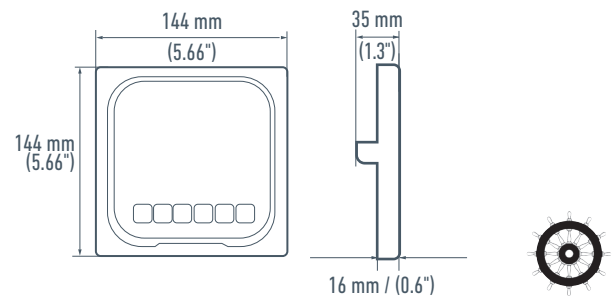
System Performance Data	
Working principle:	Acoustic correlation
Measuring distance:	130 mm from surface of transducer
Frequencies:	3.8 and 4.2 MHz
Speed range:	±50 knots sensed speed
Speed accuracy:	<1% or 0.1 knot, whichever is greater Distance accuracy: <1%
Minimum water depth:	3 metres below the transducer
Electronics Unit	
Serial speed output:	One, IEC 61162-1 3rd edition (NMEA 0183) (max load 100 ohm) (equal to 10 SD-indicators)
Analogue speed output:	One, 0.1VDC/knot (max load 5 mA)
Pulse speed output:	Two closing contact relays, potential free 200 p/NM (max load 30V/30mA or 15V/100mA)
Status output:	One power fail switching contact relay
Power supply for SD-indicators:	Max 3 SD-indicators
Power requirement: consumption:	30 watts nominal 230/115VAC 50-60 Hz Power
Environmental requirements:	IEC 60945, 4th edition 2002-8
Dimensions:	360 (+30) x 360 x 170 mm
Weight:	10.5 kg
Colour:	RAL7035
IP class:	IP44

Main Indicator	
SD4-3:	Digital speed display Total and trip distance counter
Dimensions:	144 x 144 x 16 mm
Weight:	0.6 kg

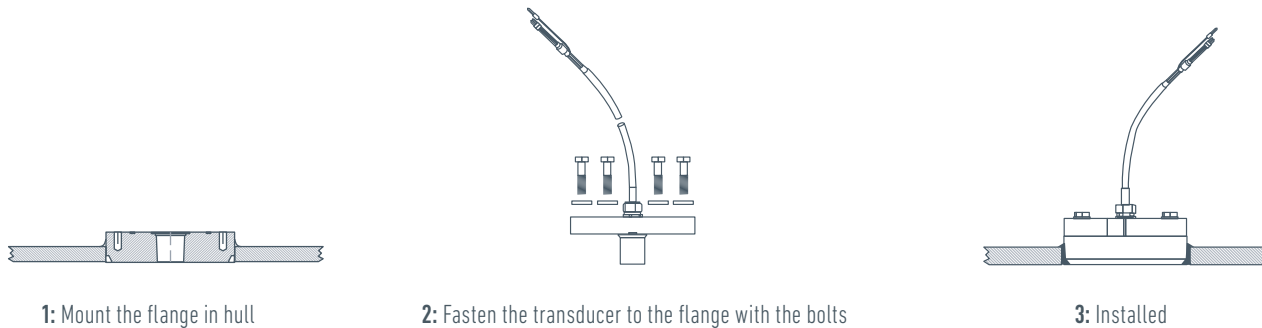
Easy Tank	
Transducer Dimensions:	Ø 168 mm Height 85 mm
Transducer Weight including 10 m cable:	5,5 kg
Bottom Flange weight steel:	6,2 kg
Bottom Flange weight aluminium:	2,1 kg
Total Dimensions including transducer:	Ø 168 mm Height 85 mm

Available for both aluminium and steel hull constructions.

Dimensions



INSTALLATION



1: Mount the flange in hull

2: Fasten the transducer to the flange with the bolts

3: Installed

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