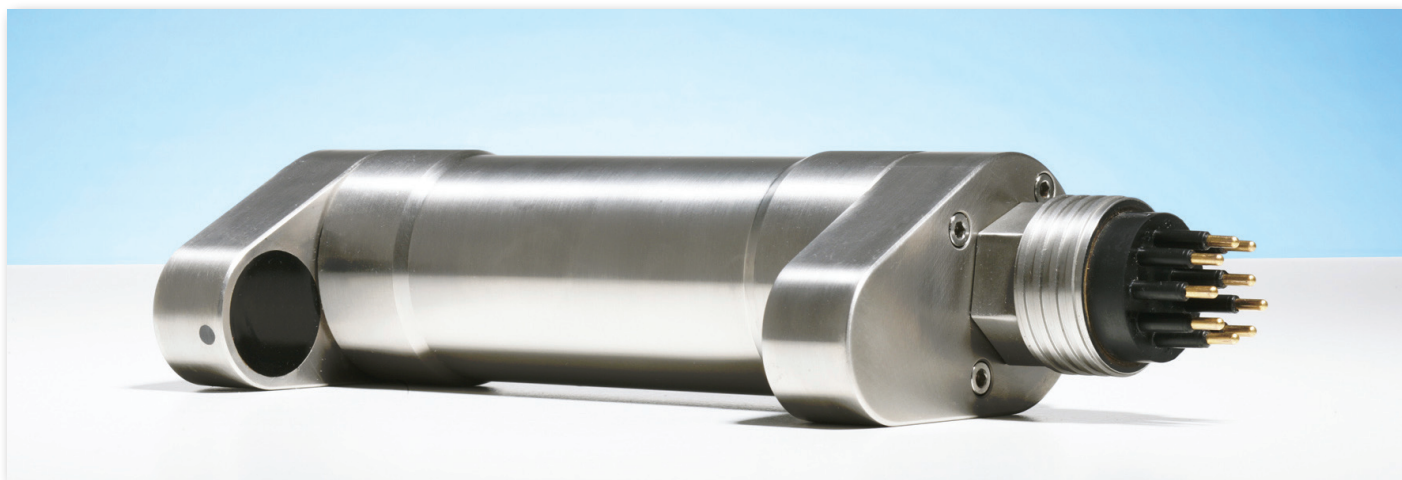




# SVP 70

A new generation of fixed-mount sound velocity probes



## SVP 70

- Accurate & reliable sound velocity measurement in seawater
- Compact housing in titanium for corrosion immunity and high strength
- Mechanical design for easy cleaning, optimal flow and flexible integration
- Galvanically isolated multiple communication interfaces as standard
- Direct path ultrasonic echosounding with 2MHz transducer element
- Instant electronic temperature and pressure compensation via internal sensors
- Integrated electronics and up to 6000m depth rating

The RESON SVP 70 sound velocity probe is developed for fixed-mount installation on surface ships, outboard rigs, submarines, AUVs, ROVs and other self-propelled platforms. The SVP 70 uses the latest electronic technology combined with an innovative mechanical design to yield a compact, robust, yet very flexible product.

The SVP 70 uses a direct path echosounding technique that instantly compensates for temperature and pressure with internal sensors.

The SVP 70 comes in a water resistant case including brackets for mounting, a 3m accessory cable, bolts, and a user manual with system description. Additional adaptor kits and fairing accessories are available.





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## PRODUCT SPECIFICATION

### Sound velocity

Range:	1350 -1800m/s
Resolution:	0.01m/s
Accuracy:	(0-50m $\pm 0.05$ m/s
Accuracy:	(6000m) $\pm 0.25$ m/s
Sampling Rate:	20Hz and lower, programmable
Sampling Mode:	On request, continuous

### I/O Interfaces

Connector:	Birns MCBH9MTT* (Titanium)
Output:	(MCBH9M) True RS-232 and True RS-422
Baud Rate:	2400-115200
Galvanic Insulation:	Yes
Output Options:	Direct, filtered, validity
Output Formats:	Universal Programmable ASCII, Valeport, AML, SVP24, NMEA, and others

### Electrical

Supply:	9-55VDC
Power:	1.1W typical, 1.5W maximum

### Physical

Diameter:	44mm (maximum)
Length:	165mm (excl. connector)
End-Cap Height:	69mm (maximum)
Connector (MCBH9M):	52.5mm x Ø23mm
Weight:	approximately 1.0kg (excl. cable)

### Environmental

Pressure:	0-630bar
Temperature:	-20 to +55°C

### Sales Package

900-63-0000-00	- SVP 70
904-63-0800-00	- Accessories Kit (5 pcs. DIN912 M6*10, 5 pcs. DIN933 M6*10, 4 x Mounting O-rings, 7.5ml Silicon oil for connectors, Microfibre cloth
7211C03	- 2 x Mounting Brackets with rubber membrane
904-63-0801-00	- Plastic Transport Case
904-63-0802-00	- Operators Manual
904-63-0803-00	- Quick Reference Manual
904-63-0804-00	- Test Cable 1.5m long terminated with RS232 and RS232 D-sub connections
904-63-0808-00	- 25m Wet Cable with connector
906-63-0800-00	- MCA Female locking sleeve
Optional Cables (All wet cable pigtails with connectors)	
904-63-0805-00	- 1.5m • 904-63-0806-00 - 5m • 904-63-0807-00 - 10m •
904-63-0808-00	- 25m • 904-63-0809-00 - 60m

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For Acoustical Measurement Accuracy please refer to [www.reson.com](http://www.reson.com) or contact sales.



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