



SVP 71

A new generation of fixed-mount sound velocity probes



SVP 71

- **Accurate & reliable sound velocity measurement in seawater**
- **Hard anodized sea water resistant Aluminium housing**
- **Mechanical design for easy cleaning, optimal flow and flexible integration**
- **115200K Baud true RS232 interface**
- **Direct path ultrasonic echosounding with 2MHz transducer element**
- **Instant electronic temperature and pressure compensation via internal sensors**
- **Integrated electronics and up to 2000m depth rating**

The RESON SVP 71 sound velocity probe is developed for fixed-mount installation on surface ships, outboard rigs, submarines, AUVs, ROVs and other self-propelled platforms. The SVP 71 uses the latest electronic technology combined with an innovative mechanical design to yield a compact, robust, yet very flexible product.

The SVP 71 uses a direct path echosounding technique that instantly compensates for temperature and pressure with internal sensors.

The SVP 71 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 upon request.

For installations that demand minimum maintenance we suggest the SVP 70, which has titanium housing.





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PRODUCT SPECIFICATION

Sound velocity

Range:	1350 -1800m/s
Resolution:	0.01m/s
Accuracy:	(0-50m) ± 0.15 m/s
Accuracy:	(2000m) ± 0.25 m/s
Sampling Rate:	20Hz and lower, programmable
Sampling Mode:	On request, continuous

I/O Interfaces

Connector:	Birns 6m*
Output:	True RS-232 Birns MCBH6M
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 (MCBH6M):	52.5mm x Ø15mm
Weight:	approximately 650g (excl. cable)
Housing material:	6082-T6
Anodization:	MIL-STD A8625E III Class 1

Environmental

Pressure:	0-210bar
Temperature:	-5 to +55°C

Sales Package

900-00-0000-00	- SVP 71
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
M7213E091_001	- Isolation Plate
7211C03	- 2 x Mounting Brackets with rubber Membrane
904-63-0801-00	- Plastic transport case
904-63-0802-00	- Operators Manual
904-60-0805-00	- SVP 71 Quick reference manual
904-60-0808-00	- Cable for SVP 71 3m (wet cable pigtail excluding DB9 connector)
906-60-0800-00	- MC locking sleeve

Optional Cables (All wet cable pigtails excluding DB9 connectors)

904-60-0808-00 - 3m • 904-60-0808-10 - 5m • 904-60-0808-20 - 10m • 904-60-0808-30 - 25m

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For Acoustical Measurement Accuracy please refer to www.reson.com or contact sales.



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