

# SVP 71

## Fixed-mount sound velocity probe



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.



## FEATURES

- 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

## SVP 71 SYSTEM SPECIFICATIONS

### Sound velocity

Range:	1350 -1800m/s
Resolution:	0.01m/s
Accuracy:	(0-50m $\pm$ 0.05m/s
Accuracy:	(2000m) $\pm$ 0.25m/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 (MCBH9M):	52.5mm x $\varnothing$ 15mm
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

For more details visit [www.teledyne-reson.com](http://www.teledyne-reson.com) or contact your local Teledyne RESON Office. Teledyne RESON reserves the right to change specifications without notice. 2015@Teledyne RESON

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