

SVP 70

Fixed-mount sound velocity probe



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.



FEATURES

- 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

SVP 70 SYSTEM SPECIFICATIONS

Sound velocity

Range:	1350 -1800m/s
Resolution:	0.01m/s
Accuracy:	(0-50m ±0.05m/s
Accuracy:	(6000m) ±0.25m/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

For more details visit 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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