

# Minos SVP

Ideal for Sound Velocity Profiles by Hand or Small Winch

A logger, the Minos SVP was specifically designed for vertical profiles from small launches or boats. ½ the size of a SV Plus v2, the instrument is much easier to handle in small spaces. The instrument also has an LED light which provides a visual status indicator to the end-user.

Like all AML sound velocimeters, the Minos SVP directly measures the time-of-flight of an acoustic ping. Time-of-flight measurement technology is between 5 and 10x more accurate than traditional CTD based sound velocity equations such as Chen & Millero or Del Grosso. The Minos SVP also has 25 Hz sampling, guaranteeing high resolution data.

## Standard Features:

- Sound Velocity: Time-of-Flight, +/-0.05 m/s accuracy
- Pressure: Temperature Compensated Strain Gauge, +/-0.05%FS accuracy
- Small Size: half the size of the SV Plus v2
- Rechargeable Lithium-Ion battery pack provides approximately 30 hours of continuous sampling
- Designed for Profiling: with integrated shackle point and stainless steel protective sensor cage
- LED light indicates ready, logging, and low battery
- High speed sampling: user configurable, up to 25Hz



## X•Series: Sensor-Xchangeable Instruments

Available as an upgrade, X•Series instruments allow the user to change instrument sensor-load on demand. With the X•Series, your CTD can be an SVTP, shallow pressure sensors can be swapped for deep, and temperature range can be adjusted as needed. The X•Series uses Xchange™ sensor-heads, which are both field-swappable and shareable with all other models of X•Series instruments.

For more information, request an X•Series brochure.

## Electrical:

- LED light indicates if the battery is low and when instrument is operating
- Gigabyte non-volatile memory (expandable)
- Up to 25 scans per second
- Real time clock
- 7.5 to 26 VDC (external)
- Auto detect RS232 or RS485
- Optional additional channels (2 analog or 1 digital)
- Auto shut-down in low battery conditions

## Sampling Modes:

- User configurable
- By time, up to 25 Hz
- By pressure, .01 dBar and greater
- By sound speed, 0.1 ms and greater

## Power:

- Rechargeable Lithium-Ion battery pack

## Mechanical:

- Housing & Endcap: Delrin to 1000 m or Titanium to 6000 m
- Stainless steel shackle point and sensor protection cage
- Size: 75.7 mm (2.98") diameter x 566 mm (22.3") OAL
- Connector: Subconn Micro 8, Female
- Storage Temperature: -20°C to 60°C
- Operating Temperature: -20°C to 45°C

## Accessories:

- Instrument suspension bar
- Instrument protection frame
- Field spares kit

Parameter	Range	Precision	Accuracy	Resolution	Response
<b>STANDARD</b>					
Sound Velocity (Composite)	1400 to 1600m/s	+/-0.03m/s	+/-0.05m/s	0.015m/s	47 microseconds
Pressure (Strain Gauge)	Up to 6000m	+/-0.03 %FS	+/-0.05%FS	0.005%FS	10 milliseconds
<b>OPTIONAL</b>					
Temperature	-2 to 32°C	+/-0.003°C	+/-0.005°C	0.001°C	100 milliseconds
Salinity (Calculated)	Up to 40ppt		+/-0.035ppt		
Density (Calculated)	990 to 1200kg/m <sup>3</sup>		+/- 0.051kg/m <sup>3</sup>	+/- 0.001kg/m <sup>3</sup>	

## Xchange™

Field-swappable Xchange™ sensors (Conductivity, Sound Velocity, Temperature and Pressure) are only available on X-Series instruments, including the Minos•X. For more information, please request a copy of the Minos•X brochure.

\*specifications subject to change without notice

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