



Sound velocity is one of the most important hydrological parameters. Measuring accurately the sound velocity is the basis of range finding precisely by means of any sonar, e.g., depth correction of SBE, beam-angle correction of MBE and the sound ray curvature correction.

The HY1200 and the HY1201 are both SVPs which employ the cost-effective "sing-around probe" technology and directly measure the velocity of sound in water. Temperature and depth where the transducer is located on for calibrating sonar systems and other acoustic instruments can also be acquired. They are extensively used in the fields of hydrography, oceanographic survey, military and defense, etc.

The HY1201 is an updated SVP based on the HY1200. Both of them configure a type of direct reading SVP which includes cables and a type of self-recording SVP which can store 4000 sets of data.

HY1200 / HY1201 Sound Velocity Profiler

Features

- Accurate and reliable velocity, temperature and depth measurement in water.
- Data recording according to optional depth or time intervals.
- Flexible data output format, compatible with the HYPACK software.
- Display and printing of velocity and temperature profile curves.
- Periodic calibration and testing service.





Specifications

• Sound-around tech	10.7 kHz		
• Sampling rate	5 Hz		
• Data storage	4000 sets (HY1200B, HY1201B, and HY1201C)		
• Interface	HY1200: RS485 with 9600 bauds, 8N1		
	HY1201: RS232 with 9600 bauds or USB		
• Power requirement	HY1200: 9V Ni-Cd battery		
	HY1201: three stage lithium battery		
• Dimension and Weight	30cm (L) × 6 cm(D), 2.0kg (Excel. cable)		
	50cm (L) × 6 cm(D), 2.5kg (Excel. cable)		
• Probe	Survey range	Resolution	Accuracy
• Velocity of sound (m/sec.)	1400~1600	0.01	±0.2
• Depth (m)	0~100m (HY1200 , HY1201A) ,	0.01	±0.4
	0~200m (HY1201B/C)		
• Temperature (°C)	0~40	0.01	±0.1

Notes: A represents direct reading SVPs;

B represents self- recording SVPs with a USB interface;

C represents self- recording SVPs with a RS232 interface.

