



The HY1202 is a series of sound velocity profilers ideally suited for real-time sound velocity measurement in shallow and deep waters down to 1,1000 water depth. The HY1202 often serves for depth correction of SBE, beam-angle correction of MBE and sound ray curvature correction. Besides fixed installation on survey vessels, the HY1202 deep-sea SVP can also be integrated in autonomous navigation platforms such as submarines, AUVs and ROVs to complete special tasks.

HY1202 SVP adopts "Time of Flight" technology and improves the accuracy to 0.05m/s, which reaches to world-leading level. It is connected to MBE or other instruments via cables, which achieves power supply and RS232 data communication.

HY1202 Deep-Sea Surface Velocity Profiler

Composition

- SVP probe;
- Communication cables: directly transmitted to MBE and other instruments for power and communication;
- HY1202 surveying software: compatible with different baud rates and data formats required by different MBEs and other instruments;
- Waterproof shipping case;
- User manual.



Features

- Accurate & reliable sound velocity measurement applying "Time of Flight" Technology
- Corrosion and pressure resistant compact 316 stainless steel housing
- Mechanical design for easy cleaning, optimal flow and flexible integration
- Direct path ultrasonic echo sounding with the 2MHz transducer element



Specifications

Sound Velocity

- Range: 1400 m/s~1700 m/s
- Accuracy: 0.05m/s at 50m depth;0.2m/s at 3000-11000m depth
- Resolution: 0.001m/s
- Depth rating: 50m, 3000m, 6000m, 11000m

I/O Interfaces

- Connector: MCBH6M (316 stainless steel)
- Output: Standard RS232 serial port
- Baud rate: 9600-115200
- Output Formats: Universal programmable ASCII, Valeport, AML, NMEA and others

Electrical

- Supply: 12 VDC (7VDC-20VDC)
- Power: 0.5W typical, 1W maximum

Physical

- Cable length: 15m watertight cable (standard configuration)
- Dimension: 190mm× ϕ 39mm (shallow water),
230mm× ϕ 55mm (deep water)
- Weight: 450 g in air (W/O cable)



Shallow Water



Deep Water

