



# Ocean Bottom Seismometer Specifications

- Width on deployment is 1.02 meters or 40 inches and 0.69 meters or 27 inches on recovery.
- Height on deployment is 0.97 meters or 38 inches and 0.97 meters or 38 inches on recovery.
- Weight on deployment is 170 kilograms or 375 pounds and 127 kilograms or 275 pounds on recovery.
- The anchor configuration is a flat metal plate 1.02 meters (or 40 inches) in diameter with a weight of 45.4 kilograms. (or 100 pounds).
- The deployment depth limit is 5,000 meters.
- The operational temperature limits - (in degrees Celcius) are 5 to 40.
- The storage temperature limits - (in degrees Celcius) are -20 to 50.
- The sensors are three, 4.5 Hz L15B geophones and one OAS E-2S hydrophone.
- The configuration of the geophones is gimbled on 3 axis.
- The time of day clock is a Seacan Timing Module with a drift rate of  $5 \times 10^{-8}$  per month.
- The recording system is digital.
- The digital sampling sample rates are 5,10, and 20 milliseconds. (200, 100 and 50 samples per second).
- The number of sensor channels that can be recorded is 4.
- The total dynamic range of th recorded data is 72 dB (AD converter) plus a 30 dB (1-step gain range) for each data point.
- The raw data is recorded in binary format with header information for each 1 Mgabyte of information.
- The data is converted to SEG-Y format after retrieval.
- The relocation aides are a flashing strobe, VHF radio beacon, and acoustic transponder.
- The release method is acoustic, with ranging capabilities.
- The total battery life is 60 days using Alkaline batteries.
- The total record time is 45 days of continuous recording.
- The number of OBS's available is 12.