

Acoustic Noise Recorder – Sylence-LP

SYLENCE- LP Acoustic Recorder is a compact autonomous recorder that accepts both passive and pre- amplified active hydrophones. Its wide band analogue input allows an acoustic signal up to 250 kHz with a dynamic range greater than 110 dB guaranteeing an efficient signal to noise ratio. In autonomous mode, the data are stored on up to 4 micro SD Cards. Data are stored uncompressed, using industry standard .wav format, allowing direct use of the files.

Typical power consumption is less than 70mW at 64 kS/s sampling rate, allowing more than 6 months continuous recording. The SYLENCE-LP Acoustic Recorder can be programmed with a mission that includes the start date and the active /standby periods of the record cycles to again improve battery life. Easy configuration through a standard web browser or a serial port (both are supported). No proprietary software needed.



Key Features

- Autonomous and manual mode
- 24 bit data acquisition
- Selectable bandwidth acquisition
- Support up to 4TB of recordings on micro SD Cards
- Programmable mission schedule
- 250m or 1000m operating depth
- Low power (up to 6 months continuous recording)
- Powered by standard alkaline D cell batteries

Applications

- Offshore and environment
- Scientific instrumentation
- Autonomous passive recording

Options

- 3 or 15 D-cell batteries
- Carrying case
- 1000m operating depth
- Cabled or End-cap Hydrophone.

Recording

With 4 selectable recording frequencies (64, 128, 256 or 512 kS/s), the **Sylence- LP** can monitor noise across a frequency bandwidth of 3Hz to more than 250kHz, guaranteeing great dynamics and it has a Signal to Noise Ratio of up to 110 dB, allowing recording of strong and low noise levels simultaneously.

Gains are software configurable between 0 dB and +15 dB. High pass filters are also software configurable between 3 Hz and 300 Hz and the recording channel is electronically calibrated.

Raw data is collected in 24 or 16 bits and stored in .wav standard format; directly compatible with processing software such as ©PAMguard, R, Python and ©Matlab.

Characteristics

Diameter: 90 mm (100mm for the 1000m version)
Length: 441 mm (258 mm for the small version)
Weight: in air: 4.5 kg in water 1.4 kg

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