

SYLENCE-MS

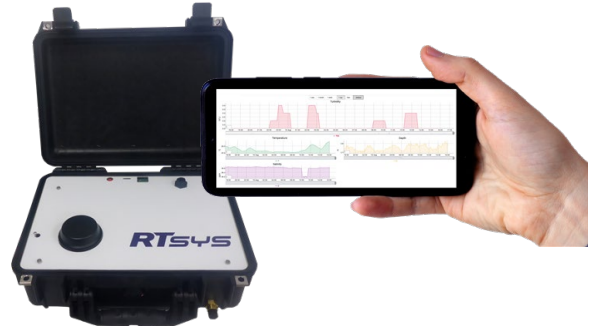
Transportable Acoustic Recorder

Compact & Portable – Multi-Sensor – Broadband

RTSYS

Key Characteristics

- **Hydrophone input:** passive or active
- **Broadband:** from 3 Hz to over 250 kHz (24 bits)
- **Low Power** (18 mths continuous recording)
- **4G Output (optional)**



Description

The **Sylence-MS** is a compact embedded recorder which can be paired with a broadband hydrophone and multi-parameter sensors which can record CTD, O², turbidity, pH or any other oceanographic data.

The acoustic recorder is compatible with both passive and pre-amplified active hydrophones. Its broadband analogue input allows a bandwidth of 250 kHz with a dynamic range up to 110 dB, guaranteeing efficient signal-to-noise ratio. The embedded digital signal processor features high-speed acquisition, filtering and storage.

The **Sylence-MS** works autonomously and the data is stored on up to 4 SD Cards. Its low power consumption allows over a period of 18 consecutive months of recording on standard alkaline D cells.

The **Sylence-MS** can be programmed with a mission schedule including the starting date, and sleep and record periods in order to improve battery life.

Dimensions:	40 x 32 x 17 cm
Weight:	5.6 kg
Power:	45 x Alkaline D cells
Storage:	Up to 4x 1TB SD Card memory
Autonomy:	18 months
Water resistance:	IP65 open - IP67 closed

Applications

- **Noise impact studies**
- **Cetacean research**
- **Offshore renewable energies**
- **Environmental monitoring**
- **Seismic / Shipping / Construction**

Options

- **Interchangeable hydrophone**
- **Conductivity-Temperature-Depth**
- **Up to 4 TB memory**
- **Low power mode**
- **Rechargeable batteries**
- **4G Telemetry**

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Recording channel

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

Broadband High Quality Data

4 recording frequencies going from 64 kS/s to 512 kS/s are selectable. The **Sylence-MS** can thus monitor noises and a frequency bandwidth going from 3 Hz to more than 250 kHz guaranteeing great dynamic and signal-to-noise Ratio (up to 110 dB).

This high SNR allows recording of strong and low-level noises simultaneously.

Raw data is collected in 24 bits and stored in a .wav standard format, which is directly compatible with processing a software such as Matlab, LabVIEW or PAMguard.

Iridium / 4G: Web portal for data monitoring

Data monitoring is possible through a cloud application (named RESONANCE) which displays real-time chemico-physical and acoustic data. Alerts can be set when defined thresholds are exceeded. The remote control of the RESONANCE application allows you to set the parameters from the user interface. The charts and reports also help you to analyse assessments and to monitor as many places around the world as you need (unlimited quantity of devices simultaneously).



"RESONANCE" cloud application

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