SES logger

Single-channel vibration data collector

- Input BNC coupling
- ICP[®] accelerometer 100mV/g
- 24-bit ADC
- Sampling rate 44.1 kHz • Dynamic range above 105 dB
- Measurement range ± 50g
- Sample length 3 s
- WiFi and Bluetooth®
- RFID reader
- SD card 4 GB
- LED ring indicator
- Li-ion main battery 2000 mAh
- Li-ion backup battery for real-time clock
- Size: 70×130×35 mm, Weight: 150 g
- Measurement time per point near 10 s

ReSES.net

Cloud-based platform for managing vibration data, analysing and converting into maintenance information.

- Manage CM program for company's Sites
- Build CM database for a Site
- Use CM models library for Functional Locations
- Store and manage vibration data
- Provide vibration analysis tools
- 21 parameters computed from vibration data
- Parameters trends per CM point
- Comparison of parameters between CM Points
- Velocity spectrum 0–1 kHz, 1600 Lines
- Acceleration spectrum 0–12 kHz, 15200 Lines Raw time waveform
- CM status trend
- Predefined faults and recommended actions • Document CM findings - faults and
- recommended actions
- Site CM status and statistics
- Exports:
 - Site CM structure
 - CM points data
 - Site CM status - Functional Location CM Status
- User management
- Site's chat room
- Browser multi-tab support

ReSES Communicator

Mobile phone manages communication between SES logger and ReSES.net

- Status of the communication interface
- Incoming/outgoing files progress

Site Status screen

- Select Site
- · See latest vibration data of the Functional Location
- Velocity trend (RMS mm/s) in band 10–1000 Hz • List of Functional Locations that are overdue or
- due in the next three days for data collection Log screen
- Incoming/outgoing files status

SES logger delivery package (HW SES-01)

- 1 x SES Logger device
- 1 x 100 mV/g accelerometer with cable (HW SES-ACC)
- 1 x carry bag
- 1 x RQ-A adaptor sensor to stud
- 5 x RQ-T RFID tags 125 kHz
- 5 x RQ-S studs



What do you need to do?

- 1. Define list of Functional Locations included in the CM program of your Site
- 2. Contact Relianeering team to get information about predefined Functional Location models
- 3. Order SES Logger(s)
- 4. Order studs (RQ-S) and RFID tags (RQ-T)
- 5. Order implementation services for your site
- 6. Decide who will do analysis own or external ISO certified Vibration Analyst(s)
- 7. Subscribe to ReSES.net for required roles
- 8. Collect data according to agreed data collection schedule
- 9. Use the provided maintenance information to improve the Site's reliability and carry out the Site's CM program

For any questions, please, contact us at

info@relianeering.com

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ReSES,net platform

THE NEW WAY OF DOING CONDITION MONITORING AND PROVIDING INPUT TO CONDITION-BASED

MAINTENANCE

RELIANEERING Simple. Easy. Smart.

www.relianeering.com

Dashboard screen

• Login to ReSES.net as a Viewer



The ReSES.net platform is powered by Relianeering AB knowledge. Relianeering AB, Gothenburg, Sweden www.relianeering.com, info@relianeering.com

ReSES.net is a 100% cloudbased platform to store, manage and analyse data collected with SES loggers.

ReSES.net provides tools for easy and quick conversion of data to valuable information supporting maintenance decisions.

The platform is user-role oriented. ReSES.net is born from connecting knowledge from different specialists in their areas. The platform provides unique capabilities for **simple** and **easy** implementation and a **smart** way of using own or external resources to perform analysis.



DATA COLLECTION

It is *quick* and Easy.

- Go to the Functional Location
- Attach the sensor to the CM point
- Scan the RFID TAG with the logger
- Press the button and that's it!

Once the logger is connected to your mobile phone hotspot and ReSES Communicator app is open, all the data will be transferred to the cloud.



ANALYSIS Do it **Smart**. The qualified Analyst gets: Parameters trends Velocity spectrum Acceleration spectrum

• Time waveform signal

INFORMATION Available **anytime, anywhere**.

The ReSES.net platform is focused on serving the needs of your maintenance team. We provide 24/7 access from every location with an Internet connection. We make it **Simple** and **Easy** for your maintenance team members to find the necessary information and make Smart decisions:

- CM status comparison between Company Sites
- Site(s) current and past status at any specific date
- Site status trends
- Functional Location CM status
- Functional Location CM History
- return a feedback

The ReSES.net platform allows export of data and information in CSV format that can be used in CMMS systems or for further analysis. The platform provides Functional Location CM status report in PDF.

Connecting Knowledge

IMPLEMENTATION

Designed to be **Simple**.

The implementation process is crucial for the effectiveness of the Condition Monitoring (CM) program.

From 2018-02-01 UPDATE

With ReSES this process can be done in a few easy steps:

- Select Functional Locations that need to be included in the CM program
- Map each Functional Location to the ReSES.model
- Provide required information about the Functional Location
- Install studs and RFID tags on each CM point, according to the models

The Relianeering team will build for you the CM database (Site Functional Locations) and supervise the implementation. If you cannot find your Functional Location model in the library, no worries, we will build it for you without additional cost.



- 21 parameters computed from the raw signal
- Fault frequencies linked at the component level
- Predefined faults linked to recommended actions
- Access to all past findings

Review Functional Location faults and recommended actions and