

VIBRATION  
MEASUREMENT  
DEVICES



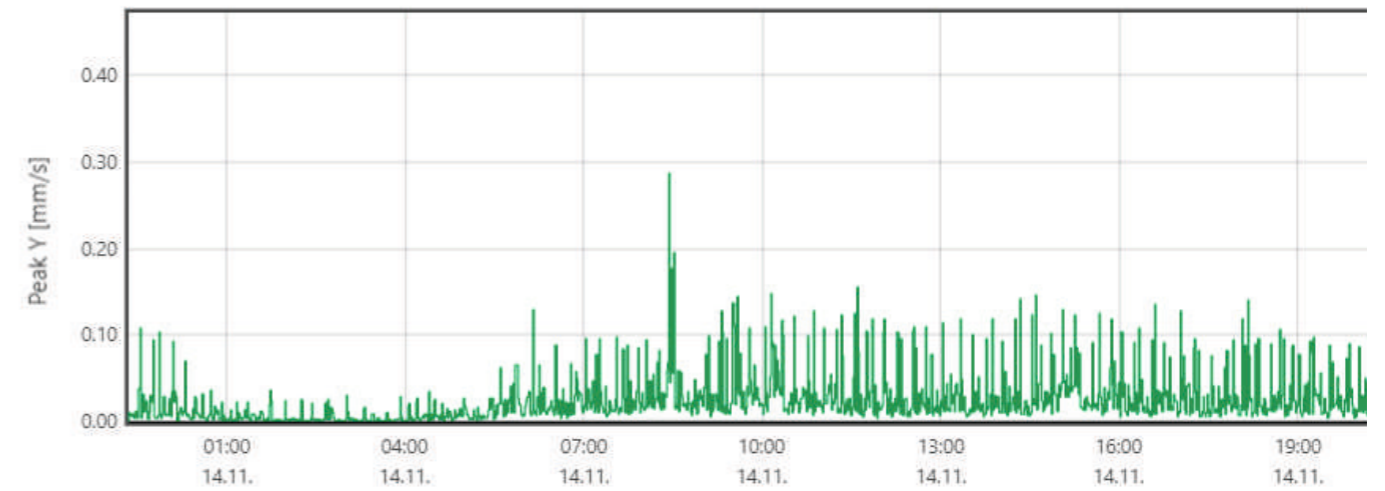
**SEDRIX**

SMART DATA CENTER

HOME OF YOUR DATA

WITH **SEDRIX** YOU CAN MONITOR AND EVALUATE MEASUREMENT DATA FROM ANYWHERE AND AT ANY TIME – SO THAT YOU CAN DO MORE IN LESS TIME.

With Sedrix you can merge measurement data from all your vibration measurement devices. You can also analyze the data without installing manufacturer-dependent analysis software.



Visual representation of vibration data

## VIBRATION MEASUREMENT DEVICES IN SEDRIX IN DETAIL

### Your system - your devices

We currently support the following devices:

- Semex EngCon Menhir
- Syscom MR3000

A strong team: the Semex EngCon Menhir and Sedrix - seamlessly integrate your Menhir into Sedrix. You use different devices? No problem, at a client's request we will happily add other devices. Simply get in touch with us!

### Monitoring - everything in view

Thanks to Sedrix you always keep all your devices in view! At any time and from anywhere you can see in which project a device is or check that the device is still online and transmitting data. Accessing the Menhir web interface is now possible anywhere, setting up a VPN is no longer necessary.

In the case of device malfunction, an easy-to-use allocation concept means that the respective device can be quickly and smoothly exchanged.



Connection status of measurement devices in the overview

### Analysis - all information at all times

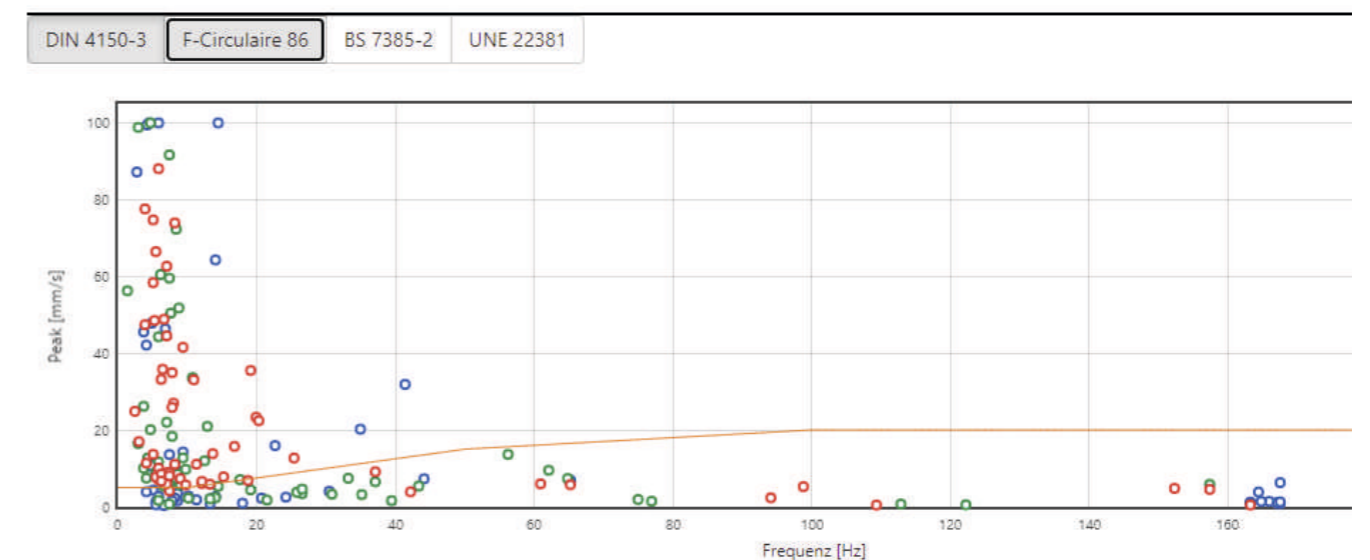
Sedrix delivers a variety of options to analyze measured data, process it further or display it in graphics.

Organizing within measuring points allows for a simple analysis of your data. Evaluating vibration events according to the following national norms is also possible.

- DIN 4150-2
- DIN 4150-3
- ÖNORM S 9020
- SN 640 312
- F-Circulaire 86
- BS 7385-2
- UNE 22381

Set up automatic notifications or alerts for you, your colleagues or clients, in the case that vibration events exceed previously determined threshold values of a norm.

The different norms can also be displayed in the visual representation of data, the vibration statistics, so that they can be compared with the measured values. (DIN 4150-3, F-Circulaire 86, BS 7685-2 oder UNE 22381).



Visualization of national norm (yellow line) in the visual representation of vibration events.

## EVENT TABLE

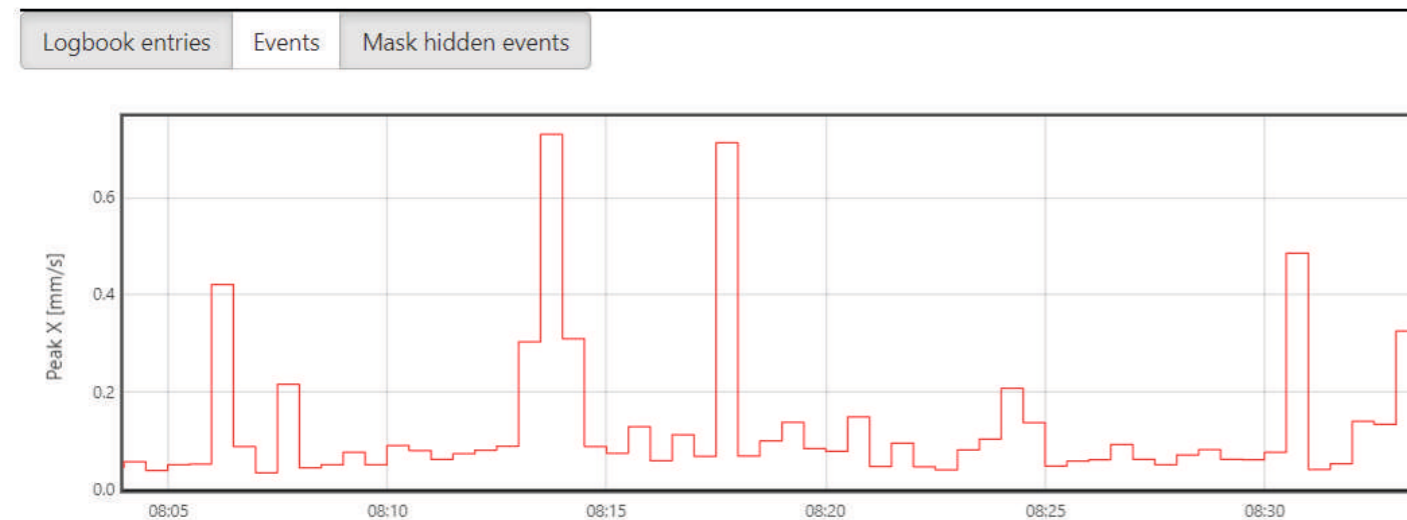
Show 10 events

Trigger time	Duration	Vector sum						Measured values v(t)							
		Peak	ÖNORM S 9020		SN 640 312		Peak	DIN 4150-3							
			mm/s	Ref. mm/s	Rel. %	Ref. mm/s		Rel. %	X mm/s	Y mm/s	Z mm/s	X Ref. mm/s	Y Ref. mm/s	Z Ref. mm/s	X Rel. %
29/11/2018 16:04:18	31.3	0.611	25.4	2.4	6.0	10.2	0.194	0.255	0.596	3.0	4.0	4.8	6.5		
29/11/2018 16:03:55	15.9	0.984	19.0	5.2	6.0	16.4	0.666	0.745	0.348	3.0	3.0	4.8	22.2		
29/11/2018 16:00:49	24.9	0.921	19.0	4.8	6.0	15.3	0.912	0.414	0.654	3.0	3.0	4.9	30.4		
29/11/2018 16:00:31	15.2	0.455	19.0	2.4	6.0	7.6	0.390	0.392	0.443	3.0	4.0	3.0	13.0		
29/11/2018 15:59:57	35.8	1.203	25.2	4.8	6.0	20.1	0.645	0.526	1.201	3.0	4.4	4.8	21.5		

Overview of vibration events in an event table

The event table offers an overview of seismic events that have occurred and is fully configurable and sortable. Graphic markers make it even easier to see if a measurement is outside of the selected norm.

## PEAK VALUES



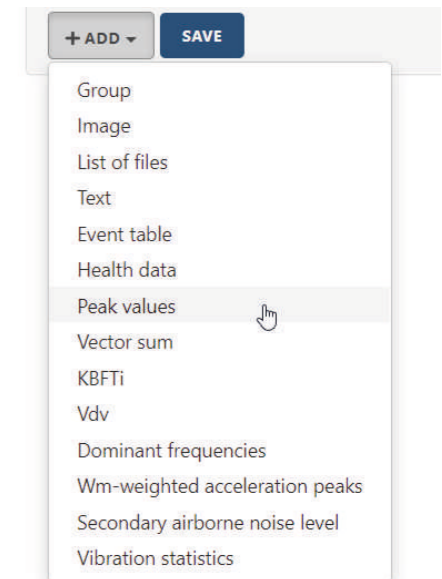
Display of interval data

Sedrix supports the following interval data:

- Peak measured values
- Vector sums
- KBFTi
- VDV - including addition over certain time periods
- Dominant frequencies
- Wm-weighted oscillation acceleration
- Secondary airborne sound

Various function blocks make it possible to quickly carry out even complex evaluations for vibration events that have occurred. The following are available:

- Displacement
- Velocity
- Acceleration
- Wm-weighted oscillation acceleration
- Vector sum
- Amplitude spectrum
- 1/3 octave band average and maximum
- Secondary airborne sound + display of edge steepness
- Vibration dose value (VDV)



Function blocks

In order to correct measured data, data from a vibration event from any device can be preprocessed via high-pass or low-pass filter.

To give you a better overview, vibration events can be given explanatory comments, or even hidden completely.

## Reports and export - your data in any format

Create and configure report templates that completely match your needs. If required, reports can be created automatically by the system in freely definable time intervals. A weekly report could be generated each week, for example.

Sedrix is your first stop for all your data, and it collects, organizes and processes your data. But Sedrix is not a dead end for your measured data. You can export all required data in CSV format at any time.

## Blasting extension - optional add-on

The optional blasting extension is specifically intended for the collection and automatic analysis of vibration events that belong to a blasting operation. Blast reports can also be easily generated with this add-on.

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Measuring point	Device	Peak X (DIN)	Peak Y (DIN)	Peak Z (DIN)	VS (ÖN)
Measuring Point 1	Menthir (Neuer Header)	10.7%	4.5%	2781.6%	0.0%
Test L18 (MR3000)	GEO-88	Device currently offline			
Test L20 (MR3000)	GEO-89	Device currently offline			

Overview of a blasting operation

## Customizing

Thanks to a flexible and expandable architecture, we are able to easily realize special requests and integrate them seamlessly into Sedrix. An active team of developers look forward to hearing your problems and finding a custom-made solution.

Sedrix is developed by

# remolution

SOFTWARE GMBH

Since its founding in 1992 Remolution Software GmbH develops high-quality software for the management, analysis and display of geotechnical measurement data.

After development began in 2015, Sedrix benefits from these more than 25 years of experience in the fields of software development and construction technology.

## We look forward to hearing from you!



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