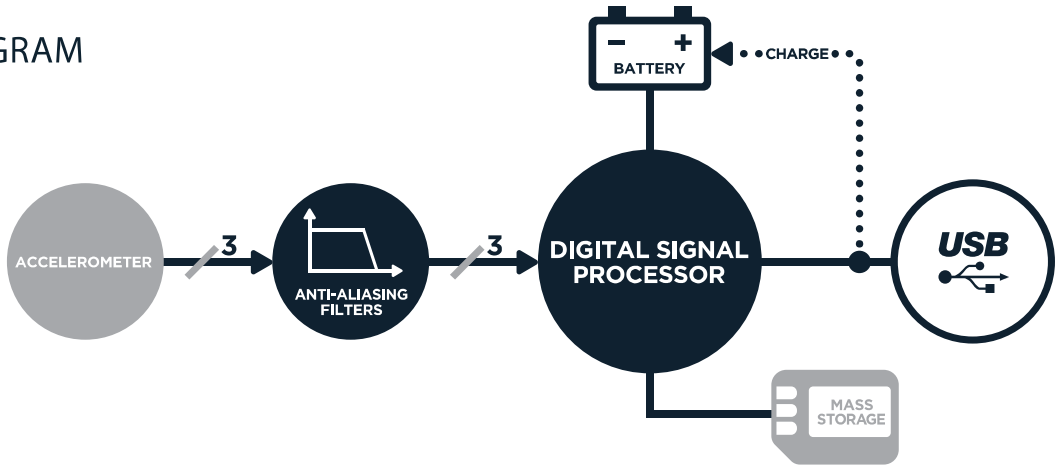
RECOVIB

3-AXIS VIBRATION MICRO LOGGER

PROPERTIES

- 3 axis
- DC to 250Hz useful bandwidth
- Low noise
- 6-hour battery autonomy
- 2 GB storage capacity
- Wireless during vibration measurements
- Compact and rugged design
- Protection grade IP65
- Several sensors can measure synchronously and simultaneously Possible Use
- "Quick and dirty" vibration monitoring and diagnosis
- Remote vibration diagnostic/consultancy
- Vibration measurement on rotating parts
- Vibration modal analysis

BLOCK DIAGRAM



OPERATION

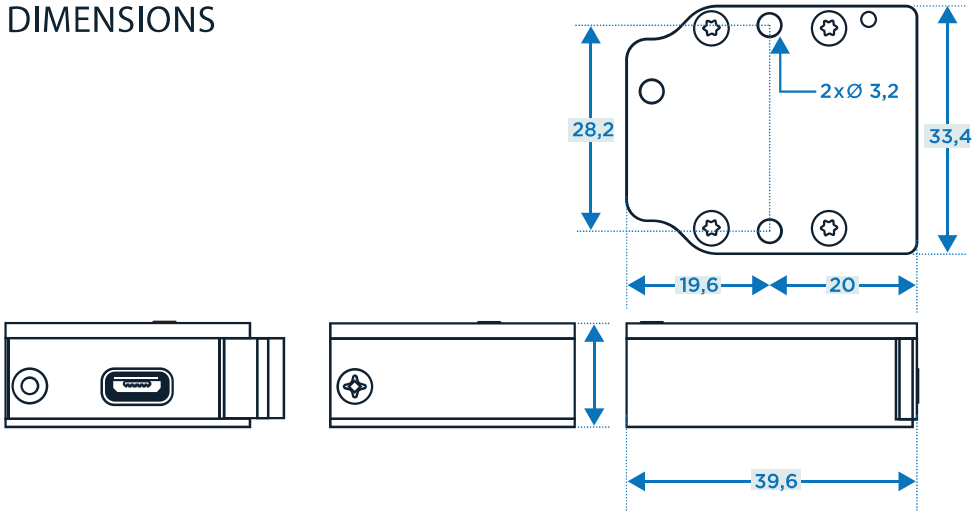
The RECOVIB.Tiny is connected to a PC via a USB connection. The supplied software allows for time synchronization with the PC, selection of the measuring range, as well as programming of the measurement interval.

When the sensor is disconnected from the PC and when the preset measurement start time is reached, the RECOVIB.Tiny begins to autonomously measure and store vibration values.

Once the preset stop time is reached, the RECOVIB. Tiny goes into sleep mode until it is reconnected to the PC.

The RECOVIB.Tiny is therefore recognized by the PC as an external storage device. Thanks to the supplied software, the measurements of one or more sensors stored in a compact binary format can be converted to standard formats depending on user preference (text, csv, MATLAB™, LabVIEW™ formats).

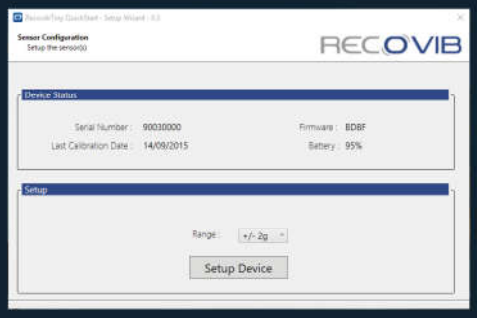
DIMENSIONS

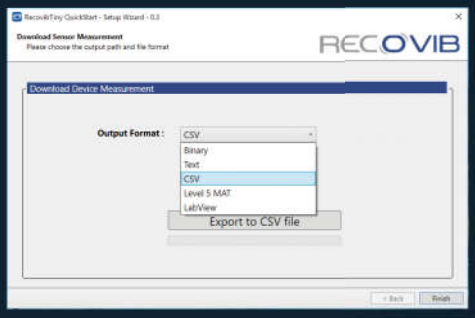


SUPPLY

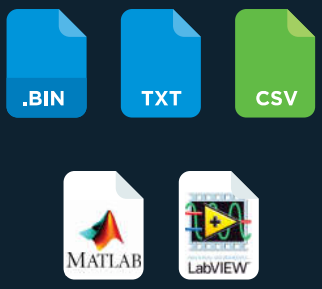
Suit case with:	
RECOVIB. Tiny sensor	Charger
Software on USB key	Pot magnets
USB cable	Key tool

SOFTWARE





OUTPUT FILES FORMATS



SPECIFICATIONS

MEASUREMENT CHARACTERISTICS	Measuring Ranges	±2g - ±6g / ±15g / ±200g	
	Lower frequency limit	0Hz (DC)	
	Passband frequencies (per channel)	250 Hz	
	Sampling frequency (per channel)	4096Hz	
	Storage rates (per channel)	1024 samples per second	
	Non-linearity	±1% F.S.	
	Residual noise	60µg/√Hz	
	Transverse sensitivity	< 5%	
AUTONOMY	Battery	> 6 hours	
	Storage	2GB	
OUTPUTS FORMATS	Binary, txt, csv, NI LabVIEW, MATLAB (Level 5 MAT-file)		
ENVIRONMENTAL CHARACTERISTICS		OPERATING	NON-OPERATING
	Temperature range	-10 .. 50°C	-40 .. 85°C
	Temperature coefficient of sensitivity	±0.02%/°C	
	Temperature drift of zero point	±0.5mg/°C	
	Protection grade	IP65	
MECHANICAL DATA	Weight	33.5gr	
	Case Material	Aluminum	

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