



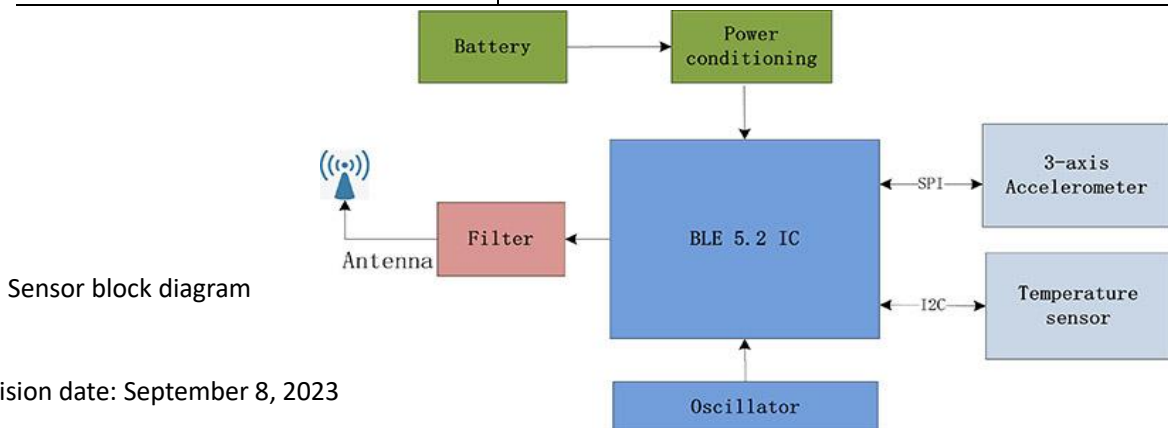
SVT-A series wireless vibration sensors are ultra-low power with advanced features. It includes SVT200-A, SVT300-A and SVT400-A. The sensors are super compact, light-weight, easy to install and use. They can monitor machine condition in real time or by schedules, which is ideal for predictive maintenance. The sample rates are adjustable from 50Hz up to 25.6kHz. Multiple SVT-A series sensors can be divided into different groups for multi-area monitoring.



Wireless vibration & temperature sensor SVT200-A

Attention: Requires to be used with Broadsens's wireless gateways (sold separately)

Parameters	SVT200-A	SVT300-A	SVT400-A
Acceleration range	±2g, ±4g, ±8g	±2g, ±4g, ±8g, ±16g	±8g, ±16g, ±32g, ±64g
Selectable sampling rates	50Hz, 100Hz, 200Hz, 400Hz, 800Hz, 1.6kHz, 3.2kHz, 6.4kHz, 12.8kHz, 25.6kHz adjustable		
Resolution	16 bit digital		
Non-linearity	<0.6% of full scale		
Noise	0.7mg RMS; 130ug/√Hz density	0.7mg RMS; 130ug/√Hz density	1.9mg RMS; 300ug/√Hz density
Sampling modes	Real time, batch, single DAQ, multi DAQ, single FFT, live FFT, trigger. All modes can be synchronized among sensors		
Temperature measurement range	-40 - 85 °C (-40 – 185 Fahrenheit)		
Temperature measurement accuracy	-25 to 85°C: ±0.3 °C; -40 to -25°C: ±0.4 °C without calibration		
Temperature measurement period	5s when active in real time mode		
Power consumption	idle:2.2uA; real-time sampling & transmission at 50Hz 190uA		
Power supply	14250 replaceable battery, 1200mAh capacity. Can last up to 5 years (depending on the frequency of usage and environment)		
Wireless protocol	2.4GHz proprietary		
FCC/IC ID	X8WBC833M/4100A-BC833M		
Wireless distance	Up to 300m (900 ft) in open space, line of sight		
Size	Diameter:34mm (1.34 inch); height:31mm (1.22 inch)		
Metal base material & total weight	Anodized aluminum alloy 6061: 53 g (1.87oz)		
Installation	Epoxy; screw mount (M6); stud mount (M8 to M6); magnet mount		
Environment	Working temperature: -40 - 85 °C; storage: -55 - 85 °C; water resistance: IP68		



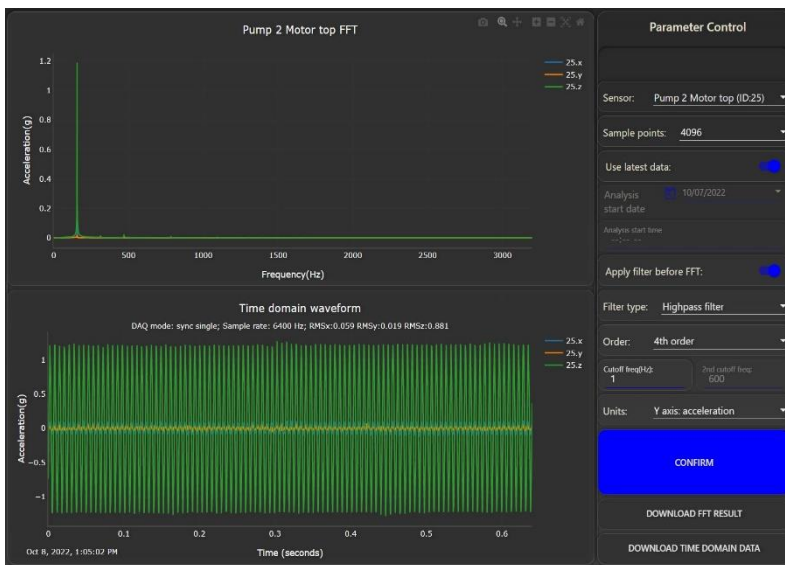
Advantages of SVT-A series sensor

Thanks to the innovative low-power design, SVT-A series sensors can work for up to 5 years before replacing the battery (depending on the frequency of usage and environment). The sensors are easy to install and configure. They can work under harsh environment with IP68 rating. The sensors support secure data transfer and OTA (Over the Air) firmware upgrade. The sensors have multiple DAQ modes: real time, batch, single DAQ, multi DAQ, single FFT, live FFT and trigger. All DAQ modes support synchronized starting time.

- . Real-time mode: when sensor wakes up, it starts data acquisition and transmission immediately.
 - . Batch mode: When sensor wakes up, it takes a fixed amount of data at the given sample rate and transmit the data together to the gateway, and then repeat the process.
 - . Single DAQ: When sensor wakes up, it takes a fixed amount of data at the given sample rate and transmit the data to the gateway for one time only. The sampling rate is guaranteed and is ideal for frequency domain analysis.
 - . Synchronized mode: Synchronized mode can be combined with real-time mode, batch mode or single DAQ. After waking up, the sensors in the same group start taking data and transmission at the same time.
 - . Multi DAQ: Continuous run of single DAQ mode. Great for frequency domain analysis with no point or time limit.
- The compact size and light weight of the sensors improve the accuracy of vibration monitoring.

Monitoring Software

BroadVibra Vibration monitoring software at the gateway is based on open-source architecture. It can be accessed with all major web browsers. Database is also included



Software advantages

- . Real-time monitoring
- . Intuitive data visualization
- . Alarm & threshold setup
- . Scheduled data acquisition
- . Time-series database
- . Key parameters trend charts
- . FFT analysis
- . Advanced filtering
- . OTA firmware upgrade
- . Open source
- . Secure transmission

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