

# Sensorbee Vibration Sensor

The SB3641 is a durable triaxial vibration sensor for monitoring construction, blasting, and traffic vibrations. It connects seamlessly with the Sensorbee Pro2 base via Modbus RTU and is built for long-term use in harsh environments with its IP67 weatherproof housing. The SB3641 provides real-time data on Peak Particle Velocity (PPV), Peak Component Particle Velocity (PCPV), and frequency spectrum, offering precise insights for infrastructure and environmental monitoring.



## SB3641 - Sensorbee Vibration sensor



**Velocity range:**  
± 200 mm/s



**Operating Temperature:**  
-30 to +60 °C



**Power:**  
5 to 24VDC



**RMS noise:**  
0.05 mm/s



**Temperature Sensor:**  
-20 to 50 °C: ±0.1 °C



**Dimensions:**  
100 x 100 x 30 mm



**Interface:**  
Sensorbee extension port (M8)



**Operating Humidity:**  
0 to 99 %RH



**Weight:**  
350 gram



**Waterproof Rating:**  
IP67



**Regulatory Compliance:**  
CE



**Power:**  
7 mW



**Bandwidth:**  
1 to 100 Hz. Signals are sampled at 4096 Hz.



**Housing:**  
Aluminium with 5 mm plate.  
Dimensions: 100 x 100 x 30 mm.



**Cable length:**  
2.5m



**Connectivity:**  
Compatible with Sensorbee Air quality units, using the M8 extension port (Modbus RTU)



**Compliance Standards:**  
BS 7385-1, BS 6472-1



**Output Data:**  
PPV,  
PCPV (X, Y, Z),  
Peak Frequency (X, Y, Z),  
PPV FFT spectrum peak amplitude,  
Temperature



**Data Visualization:**  
The Sensorbee Cloud Platform displays sensor data in real-time and historical views, offering detailed visualizations such as PPV graphs, PCPV/frequency plots, and FFT analysis.