

FORCEBIT SENSOR SOLUTIONS DOT



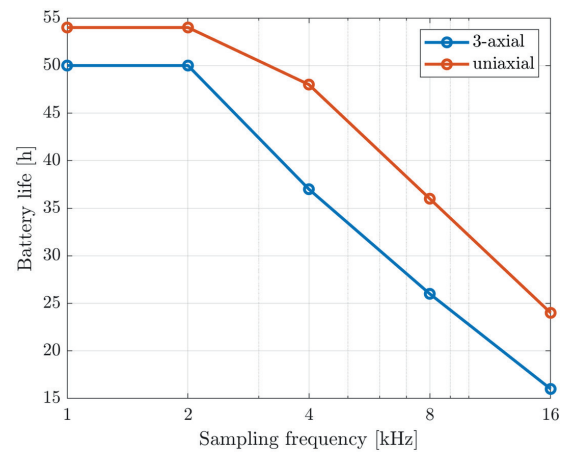
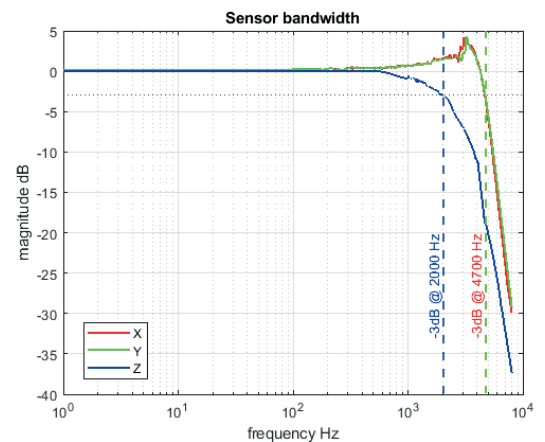
Wireless 3-axial accelerometer measuring linear acceleration

Why Choose the DOT Sensor?

Our sensor features cutting-edge **MEMS technology**, ensuring a highly accurate flat frequency response from 0 to 4.7 kHz (XY-axis). With its **wireless, rechargeable** design and effortless **plug-and-play installation**, setting it up is a breeze. The built-in sleep mode enhances energy efficiency, extending its operational time.

Thanks to its **compact size and cable-free design**, the sensor is minimally intrusive and can be easily deployed in any environment. Enjoy **real-time data streaming** for fast and reliable results, even with high data throughput. Seamless integration with existing analysis tools allows you to **monitor up to six sensors simultaneously**.

The sensors can be installed using double-sided tape or magnets for quick measurements in low-bandwidth applications, or with epoxy adhesive when capturing high-frequency dynamics is required.



Resolution	16-bit @ 70 ug/ $\sqrt{\text{Hz}}$	Data format	.csv or .h5
Range	2 g, 4 g, 8 g, 16 g	Operating temperature	-40°C to 60°C
Bandwidth x,y	0 - 4.7 kHz	Dimensions / weight	15 x 20 x 30 mm ³ / 9.5g
Bandwidth z	0 - 2 kHz	Autonomy (rechargeable)	37 hours @ 4 kHz
Sampling rate	from 25 Hz to 16 kHz	Aggregated sample rate	48 kHz
Time synchronization	10 μs	Charging time	45 min for 75% & 105 min for 100%

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