

SM1-2250 SENSOR MOTE OVERVIEW

Easy-to-install ultrasonic condition monitoring in a compact package.

Combined with our powerful, cloud-based, Waites reliability portal, this high-frequency, high-g, 3-axis wireless vibration sensor will keep your equipment running properly and alert you long before unexpected failures occur. The compact size of the SM1-2250 allows it to fit into practically any space, enabling your operation to monitor machines in even the tightest locations. Integrated with our deep machine learning routines, the high-frequency **ImpactVue™** feature captures mechanical failures months before they become catastrophic. With hundreds of thousands of sensors installed and monitored, customers with Waites systems realize hundreds of millions of dollars per year in documented lost production savings and increased production capacity.

POWER

Battery: (1) 3V approved CR123A Industrial Lithium*

Expected battery life: 5.5 years*

*Expected battery life is based on standard environmental conditions and reading intervals.

WIRELESS RADIO

802.15.4 wireless 2.4GHz ISM band with 3,000 ft LOS range

TEMPERATURE SENSOR

Range: -40 to 185 °F (-40 to 85 °C) w/ ± 1 °F (± 0.5 °C) accuracy

ENVIRONMENTAL

Operating Temperature: -40 to 185 °F (-40 to 85 °C)

IP-67

ACCELEROMETER

SM1: Tri-axis, high dynamic range

X Axis: +/- 100g, Fmax 30kHz

Y Axis: +/- 16g, Fmax 2.7kHz

Z Axis: +/- 16g, Fmax 2.7kHz

50,000 lines of resolution (16,500 simultaneous X/Y/Z)

PHYSICAL DIMENSIONS

2.5 in x 1.25 in ϕ (63 mm x 32 mm ϕ), 0.25-28 mounting hole

0.15 lbs (0.06 kg) without battery

0.20 lbs (0.1 kg) with battery

