

SM7-1150 SENSOR MOTE OVERVIEW

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

Combined with our powerful, cloud-based, Waites reliability portal, this high-frequency, high-g, 3-axis, vibration sensor with wake-on-shake trigger functionality will keep your equipment running properly and alert you long before unexpected failures occur. The compact size of this sensor mote 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: Custom 3.6V 2100mAh Li-SOCl₂ ER17335*

**Using non-approved batteries voids the warranty.*

The expected battery life is 5.5 years, based on standard environmental conditions (up to 185 °F / 85 °C) and reading intervals.

WIRELESS RADIO

802.15.4 wireless 2.4 GHz ISM band with 2,100 ft LOS range

TEMPERATURE SENSOR

Range: -4 to 185 °F (-20 to 85 °C) w/ ±1 °F (±0.5 °C) accuracy

ENVIRONMENTAL

Operating Temperature: -4 to 185 °F (-20 to 85 °C)

ACCELEROMETER

Tri-axis, high dynamic range

X axis: +/- 50g, Fmax 11kHz

Y axis: +/- 64g, Fmax 8.5kHz

Z axis: +/- 64g, Fmax 5.6kHz

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

PHYSICAL DIMENSIONS

2.6 in x 1.35 in ø (66 mm x 34 mm ø), 0.25-28 mounting hole

0.2 lbs (90 g) without battery / 0.23 lbs (105 g) with battery

