

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 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 well over half a million 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.

ACCELEROMETER

- Tri-axis, high dynamic range
- X axis: +/- 50g, Fmax 11.2kHz,
- Y axis: +/- 64g, Fmax 5.2kHz,
- Z axis: +/- 64g, Fmax 5.2kHz
- 50,000 lines of resolution (16,500 simultaneous X/Y/Z)

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)
- IP69K

WIRELESS RADIO

802.15.4 wireless 2.4 GHz ISM band with 2,100 ft (640.08 m) LOS range

POWER

Battery: Waites BT7-7000

PHYSICAL DIMENSIONS

- 2.6 in x 1.35 in \varnothing (66 mm x 34 mm \varnothing), 1/4"-28 mounting hole
- 3.2 oz (91 g) without battery / 3.68 oz (104 g) with battery

*Peak battery capacitance optimal above -4°F (-20°C).

