

LSV01

LoRaWAN® Temperature and Vibration Sensor

Reduce unplanned downtime with temperature and vibration monitoring for predictive maintenance.

KEY FEATURES ►



Detect Developing Faults Earlier

Capture three-axis vibration data, including frequency, acceleration, velocity, and displacement, to reveal early signs of bearing wear, imbalance, misalignment, and looseness.



Validate Abnormal Conditions Faster

Combine vibration and temperature data to confirm developing faults, reduce false alarms, and make faster, more reliable maintenance decisions.



Predictive Maintenance at Scale

LoRaWAN® enables remote monitoring across distributed assets, helping teams identify trends, prioritize maintenance, reduce unnecessary inspections, and support equipment uptime.



Up to 5 Years of Battery Life

Flexible monitoring intervals help balance timely equipment insights with long-term battery performance.



Built for Demanding Industrial Sites

The IP67-rated enclosure helps protect the sensor against dust and water, supporting deployment in demanding industrial environments.



Flexible Installation

Use magnetic mounting for quick installation on suitable metal surfaces, or stud mounting for a secure, direct connection to the machine housing.

LoRaWAN®



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APPLICATIONS ►



Power Generation



Manufacturing



Oil, Gas, and Chemicals



Mining and Cement

Model	LSV01
Wireless Protocol	LoRaWAN
Supported Frequency Bands	Multiple regional frequency bands available, including EU868, US915, AU915, and AS923
Maximum Transmit Power	19 dBm
Temperature Measurement Range	-40 °C to 125 °C (-40 °F to 257 °F)
Temperature Accuracy	±1 °C (±1.8 °F)
Temperature Resolution	0.1 °C (0.2 °F)
Vibration Measurement Axes	Three-axis (X, Y, Z)
Vibration Parameters	Peak acceleration, RMS velocity, and peak-to-peak displacement
Velocity Measurement Range	0.1 to 199.9 mm/s
Velocity Measurement Accuracy	±10% at 100 Hz
Operating Temperature	-10 °C to 80 °C
Operating Humidity	10% to 95% RH, non-condensing
Ingress Protection	IP67
Battery Capacity	8,500 mAh (replaceable)
Power On / Off	Internal slide switch
Mounting Options	Stud mounting or magnetic mounting

