

DELTA V

Vibration sensor



Product description

The DELTA V sensor enables precise monitoring of **structural vibrations and tilt**, fully autonomously. Standards Circulaire 86, IN 1226, BS 7385, SN 640 312a (VSS 40 312) and DIN 4150-3 are integrated, with real-time alerts when thresholds are exceeded.



- ✓ Remote monitoring
- ✓ Continuous monitoring
- ✓ Wireless
- ✓ 1 to 3 years of battery life*

Technical specifications

KEY FEATURES

Measurement type	Acceleration, peak particle velocity, frequency analysis, tilt, temperature
Dimensions	13 x 9 x 6 cm
Battery life	1 to 3 years* II 3.6 V - 13 Ah battery <i>*Depending on frequency, measurement mode and 4G network status</i>
Communication	LTE-M or Bluetooth (NB-IoT coming soon)

ACCURACY AND PERFORMANCE

Measurement interval	10 min to 24 h + immediate alert if a threshold is exceeded
Sampling frequency	500 Hz to 4 kHz* <i>*Optimization to 4 kHz by end of 2026</i>
Bandwidth	1 to 150 Hz
Acceleration resolution	1 µg
X, Y angle resolution	0.01°
PPV resolution	0.01 mm/s

MEASUREMENT CAPABILITIES

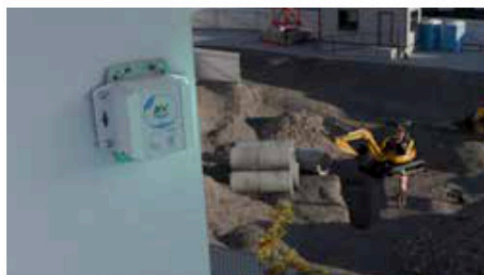
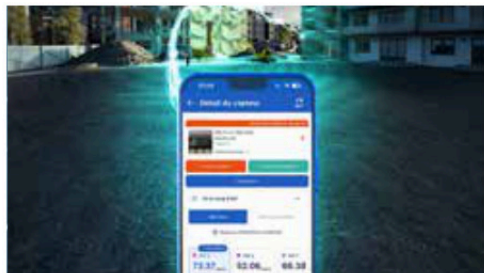
PPV (Peak Particle Velocity)	0 to 100 mm/s
Frequency analysis	1024-point FFT
Tilt	Periodic measurement of X and Y angles
Vibration density	Vibration event compactness metric** <i>**Vibration density indicator, in % Low value: the vibration measured comes from a brief or isolated shock. Higher value: the vibration lasted longer, with several impacts or continuous vibration.</i>

MEMORY AND STORAGE

Internal memory	1,000,000 simple measurements, 5,000 full acquisitions
Remote storage	Memory recording + LTE-M transmission

OPERATING CONDITIONS

Operating temperature	-20 °C to +60 °C
Protection	IP65
Mounting	Screw mounting, horizontal or vertical; mounting plate



NEED MORE INFORMATION?

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