

Accelerometer Node



FEATURES AND BENEFITS:

- ULTRA-LOW NOISE INTEGRATED ACCELEROMETER
- EASY INSTALLATION – ANY ORIENTATION
- LTE-M COMMUNICATIONS
- TRIGGERED OR CONTINUOUS SEISMOGRAM DATA STREAMS
- GPS TIMING
- EVENT DETECTION MODE
- HIGH FREQUENCY DYNAMIC MONITORING
- MADE IN AUSTRALIA

The Viotel Accelerometer Node V2.0 is based on an ultra-low noise triaxial MEMS sensor and is self-contained with internal digital communication modem and GPS receiver. Self manage configuration via [myViotel](#) device manager & dashboard.

Used to measure acceleration and frequency, modal and resonance analysis such as ground motion from earthquakes, building earthquake response, structural modes and resonances, dynamic tilt measurements

Specifications

Accelerometer	3 – triaxial
A/D	20 Bit
Sampling Rate	15.625 Hz, 31.25 Hz, 62.5 Hz, 125 Hz, 250 Hz, 500 Hz
Sensitivity	256,000 LSB/g
Scale Factor	3.9 μ g/LSB
Tilt Tolerance	180° (Omnidirectional)
Full Scale	\pm 2.048 g
Noise Density	25 μ g/ \sqrt Hz (MAX)
Broadband Noise (RMS)	< 70 μ g @ 31.25 Hz
Dynamic Range	90 Db @ 31.25 Hz
Dimensions / Weight	110mm x 150mm x 60mm (W X L X D) / 0.6kg
Operating Temperature	-35°C to 65°C
Input Power	Internal non-rechargeable battery / External 4 – 15 VDC
Enclosure features	ASA Plastic, IP67

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