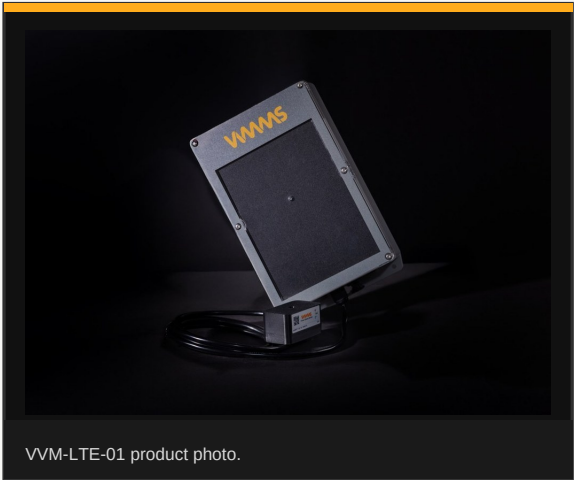


VIBRATION MONITORING SYSTEM

VIMMS Vibration Monitor

VVM-LTE-01 | Wireless instrument for vibration documentation

The VIMMS Vibration Monitor is a wireless measurement unit for blasting, construction and civil works. It is developed and made in Norway, with production in Norway and an external sensor for flexible placement.



VVM-LTE-01 product photo.

SOLAR + INTERNAL BATTERY

Set and forget

3 months operation in dark areas; full charge <2 sunny days

DEVELOPED AND MADE

In Norway

production in Norway

DATA EXPORT

PDF and API

structured report-ready data

MEASUREMENT

- Acceleration measured by external MEMS sensor
- PPV, frequency and displacement are calculated
- Single-axis or triaxial measurement selected in software

FIELD OPERATION

- Flexible field mounting with separate logger and sensor
- Solar panel and external 12 V charging for dark areas
- Overcast operation; full charge in under two sunny days
- Up to 3 months runtime without light

DOCUMENTATION

- Structured digital report basis
- Sensor ID, logger ID and calibration ID included
- Data quality, filter profile and selected axes documented

APPLICATIONS

- Blasting, construction and civil works
- Monitoring of buildings, infrastructure and critical structures
- Documentation for clients, neighbors, consultants and authorities

TYPICAL WORKFLOW



Technical data

VVM-LTE-01 | Datasheet

MEASUREMENT

Principle	Acceleration measured; PPV/frequency/displacement derived
Frequency range	1-400 Hz
PPV	Calibrated up to 250 mm/s; higher values recorded outside calibrated range
Sensor	MEMS accelerometer
Axes	Selected in software: single-axis or triaxial

MECHANICAL AND ENVIRONMENTAL

Logger	204 x 133 x 41 mm
Sensor	63 x 36 x 33 mm
Sensor cable	2 m
Enclosure	IP65
Weight	approx. 1.2 kg total
Temperature	-20 to +60 C

REPORTED MEASUREMENT BASIS

Values	Acceleration, PPV, frequency and calculated displacement
Device IDs	Sensor ID, logger ID and calibration ID
Filter Profiles	NS 8141, SS 4604866
Axis Selection	Triaxial, Single Axis
Data quality	Clipping, overflow, lost samples and transfer status

SYSTEM

Communication	LTE-M
Position	GPS
Power	Battery, solar panel, external 12 V for dark-area charging
No light	Up to 3 months runtime
Solar	Overcast operation; full <2 sunny days
Reporting	PDF and API via ALARMS

COMPLIANCE AND CALIBRATION

Standards	NS 8141 / SS 4604866
Calibration	Sensor calibrated; logger documented digitally
Interval	Recommended every 2 years
Traceability	Calibration certificate per sensor / serial number
CE / Directives	CE marked; RED / EMC, RoHS / REACH
Software	Firmware/software version and filter profile documented



System illustration with logger and external sensor.

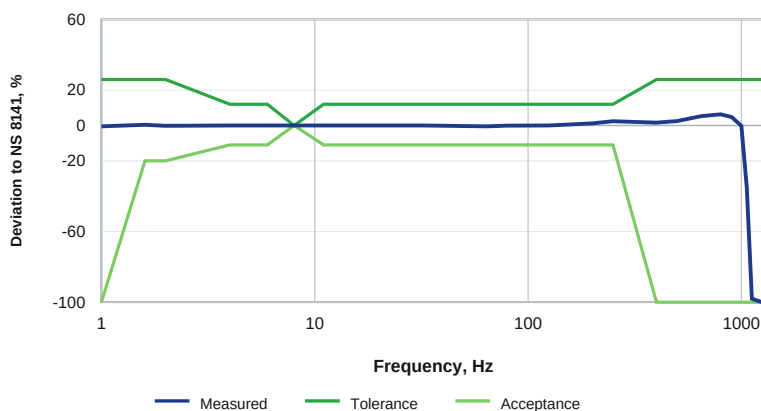
Calibration characterization

VVM-LTE-01 | Datasheet

CALIBRATION CHARACTERIZATION

Measured data from an actual SPEKTRA calibration certificate. The curve shows relative frequency response for one characterized sensor; the calibration certificate for the delivered sensor remains the controlling documentation.

Relative frequency response - weighted according to NS 8141



DOCUMENTATION

The graph is included as a visual reference from an actual SPEKTRA certificate. The calibration certificate for the delivered sensor remains controlling documentation.

FIELD INSTALLATION



Field installation. Developed and made in Norway.