





DATA SHEET

Before you read on if you don't see your exact requirements here please see our custom build factsheet or contact us directly

Managing and monitoring the levels of vibration on a construction site has never been easier with the event based NanoULTRA – Vibe. It has been carefully designed to be robust for use in harsh environments such as construction sites, yet simple to use and sensitive enough to capture ongoing vibration events. The NanoULTRA – Vibe offers wireless mobile connectivity, long battery life (usually 1 - 2 months), trigger alarming (email and SMS), and constant access to data to our secure cloud platform, the CDLSmartHub $^{\text{TM}}$, where the raw data can be turned into actionable insights.

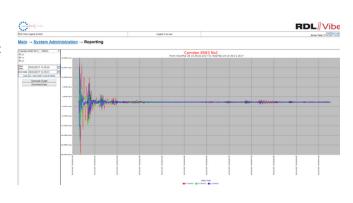
From the CDLSmartHub™ you can configure and manage your units, set alarms, view audit trails, integrate and export data, view trends and visualise data. Investing in the NanoULTRA - Vibe and CDLSmartHub™, gives you access to a fully integrated end-to-end IoT solution to effectively manage your assets.

Here at CDL we understand the requirements of being on a construction site. The NanoULTRA -Vibe continuously monitors at high speed and records vibration events over pre-set thresholds set by the user on the CDLSmartHub™ in line with your requirements. If you are unsure if this meets your onsite needs, please give one of our IIoT Solution specialists a call for more information.

KEY FEATURES

- Vibration event capture
- Heart beat logins to the CDLSmarthub
- · Receive SMS and email alarms when vibration limits are exceeded
- · Add users and alarm recipients via a secure web browser.
- Input for up to two tri-axial geophone sensors
- Average battery life 1-2 months
- Remote monitoring reducing on-site requirements
- Minimum trigger level: 0.18mm/s
- Maximum sensor level: 43.4mm/s
- · Geophone low frequency response: 4.5 Hz
- Operating temperature: -5 to + 60 C
- Quad band Modem
- Roaming SIM Card
- PPV reporting

APPLICATIONS





Cloud based IoT platform



vibración Event captare



Long battery life



Email and SMS Alerts

Physical

IP66 die cast aluminium 178 x 156 x 74 IP66 rated enclosure

Power Supply

Battery powered by 2 x D cell 3.6 V as standard Mains powered AC 240V to 12VDC power supply or 8-18V DC (Optional)

Indicative Battery Supply

Dependent on sample rate, temperature and range Battery longevity of up to 4 months available

Standard On-board Inputs

Geophone input options: 1 or 2 , 3 axis Natural Frequency sensitivity range: 4.5 Hz, 8 Hz, 10Hz, 14 Hz Geophone on standard 3m cable

Modem

LTE: Twelve band, 700 (Bd12 <MFBI Bd17>, Bd28) 800 (Bd18, Bd19, Bd20) 850 (Bd5) / 900 (Bd8) / AWS (Bd4) / 1800 (Bd3) / 1900 (Bd2) / 2100 (Bd1) / 2600 (Bd7)

UMTS/HSPA+: Seven band, 800 (BdXIX) / 850 (BdV) / 900 (BdVIII) / AWS (BdIV) / 1800 (BdIX) / 1900 (BdII) / 2100MHz (BdI)

GSM/GPRS/EDGE: Quad band, 850/900/1800/1900 MHz

Antenna and Connector

Puck mount on aluminum case fitted as standard

LEDs and Button

Internal on/off switch LED'S for modem activity and triggered status

Environmental

- -10 to +75 °C (operational)
- -20 to +85 °C (storage)

Approvals

CE

NanoULTRA - Vibe Configuration and Management

The NanoULTRA - Vibe transfers data to the CDLSmartHub™ as soon as the unit is powered up. All configuration is performed via CDLSmartHub™ to the NanoULTRA - Vibe

Options include (s, seconds, m, minutes, h, hour)
Sample Rate

5s, 10s, 15s, 30s, 1m, 2m, 5m, 10m, 15m, 30m, 1h, 2h, 3h, 6h, 12h or 24h.

Report rate

(m, minutes, h, hours) 1m, 2m, 5m, 10m, 15m, 30m, 1h, 2h, 3h, 6h, 12h, 24h, 48h or 1 week.

Fast Sample frequency options (Hz) 10, 25, 50, 75, 100, 150, 200, 250, 300, 350, 400, 450, 500.

On board non-volatile memory to store sensor data if power or signal is lost.

CDLSmartHub™

For live examples of the CDLSmartHub™ please visit: https://www.captiondata.com/products/cdlsmarthub/

Web based configuration of remote NanoULTRA - Vibe

- User management
- · Alarm management and audit trails
- Trending of data

Starter Kit - Battery Unit

NUV-BAT = NanoULTRA -Vibe Battery NUV-GEO = vibration Geophone sensor NUV-CSH = CDLSmartHub™ 12 month

Starter Kit - Mains power Unit

NUV-PSU = NanoULTRA - Vibe PSU NUV-GEO = vibration Geophone sensor NUV-CSH = CDLSmartHub™ 12 month

Contact Info

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