

A wireless monitoring solution for your industrial equipment



Unlock the potential within the Vayeron xBud™ and configure it to suit your data collection and monitoring requirements.

xBud™ is a monitoring 'buddy' for your equipment.

Use the Vayeron xBud™ NO CODE web tool to configure your xBud™ nodes to monitor what you want, how you want;

- Measure and record baseline vibrating and angular conditions
- Automate anomaly / exception detection
- Design your own measurement parameters and set thresholds to receive alerts
- Send the data to external software and control systems

Customise the application with the xBud™ NO CODE online programmer

ShakerBud™

Monitor linear or oscillatory excitation. Synchronise devices on each side to detect any out of sync movement, indicating an issue.



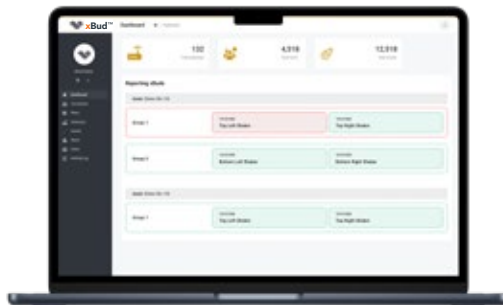
BearingBud™

Conduct real-time remote vibration analysis of bearings to detect defects emerging in the equipment. Perfect for low frequency Vibration Analysis such as on conveyor pulleys.



PumpBud™

Use as a simple pump cavitation detection system. Program the device to alert on anomaly or divergence from a standard deviation.

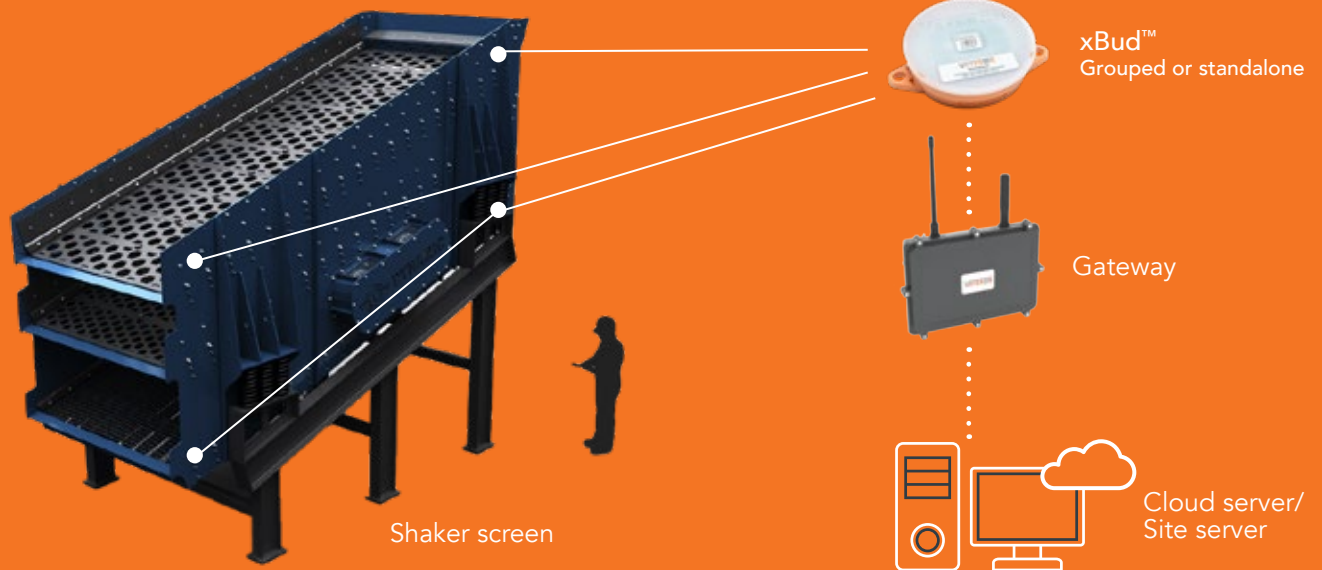


The xBud™ is a highly agnostic wireless data acquisition device coupled with a phone app for easy deployment and cloud based software. It allows a great deal of flexibility in its use and capability.

FEATURES

- High Resolution Motion Data
- Vibration monitoring
- Tilt sensor / Inclinometer
- Data & Internal clock synchronisation between devices
- WIFI & Ethernet network interfaces available
- Send raw data or process at the edge
- Use one or use 1000 xBud™ nodes

Attach the xBud™ nodes to equipment with quick deploy magnetic mounting or simply bolt it on!



GENERAL PARAMETERS	MIN	MAX	UNITS
Ambient operating temp	-20	+40	°C
Operating power	0.6	2.5	mW
No. devices per gateway	1	1000	ea
Radio range		30	m
Radio frequency	2.402	2.480	GHz
Data rate	32	1200	pkts/min

PARAMETERS	DOMAIN	SAMPLES	RESOLUTION
Mean of acceleration X, Y, Z-Axis	Time	1- 65,536	16 bits
Standard deviation of acceleration X, Y, Z - Axis	Time	1- 65,536	16 bits
Minimum value of acceleration X, Y, Z - Axis	Time	1- 65,536	16 bits
Maximum value of acceleration X, Y, Z - Axis	Time	1- 65,536	16 bits
Radio signal strength - RSSI	-	1- 65,536	16 bits
Mean of battery voltage	Time	1- 65,536	16 bits

Acquire gyrosopic or acceleration data for post processing and power operational insights on equipment



The xBud™ online software platform allows you to customize the devices to suit your specific needs.

Set parameters such as;

- Gyroscope or Acceleration
- Synchronise devices
- Sampling rate
- Communication rate
- Battery life

Choose your mode of deployment:

- Raw Data Acquisition Mode
- Statistics Mode
- Acceleration Event Anomaly Detection Mode

Ultimate Industrial IoT flexibility to solve your unique monitoring problems!



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