

ReVibe



ANURA™ Remote

# RK14/18

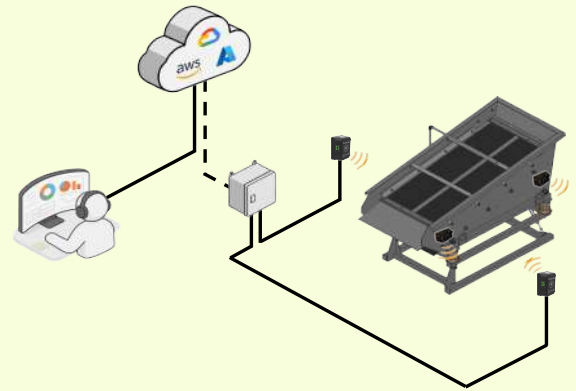
# Remote Kit

Remote monitoring made simple – real-time data and analytics at your fingertips.

**RK14/18 Remote Kit**

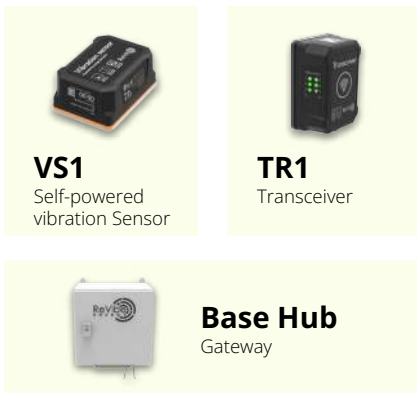
# Uninterrupted insights with self-powered sensors

Operators of vibrating screens, feeders, and similar assets who need continuous, cloud-connected insight into real-time machine health and performance. ANURA Remote ensures high-quality data and reliable operation, even in the toughest environments.



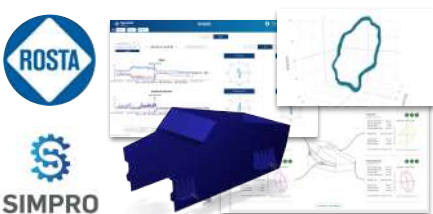
- ✓ Modbus TCP/IP connectivity, direct SCADA system integration
- ✓ Plug-and-play setup, pre-configured for out-of-the-box operation.
- ✓ Durable design delivering real-time vibration data actionable insights.
- ✓ Complete monitoring package with self-powered vibration sensors

## Hardware



## Visualisation software

The open data format ensures easy integration to **any digital platform**. ANURA Remote also comes with ready-to-use integrations with **ROSTA Digital** and **Simpro Sentinel**.



## Scalable kits for remote vibration diagnostics

The **RK14** and **RK18 Remote Monitoring Kits** deliver a fully integrated system for permanent monitoring of industrial equipment. The kits include the durable ANURA Base Hub, which serves as the central data handling unit; TR1 Transceivers for robust wireless communication; and VS1 self-powered sensors that monitor vibrations with high precision. Together, these components provide synchronized, real-time data collection.

Ideal for predictive maintenance, the RK14 and RK18 Remote Monitoring Kits help businesses optimize operations, reduce downtime, and extend the lifespan of critical machinery. A **comprehensive permanent monitoring solution** for industrial applications, combining robust hardware and precise data collection for seamless operational insights.



*The RK14 and RK18 kits can be expanded with additional sensors as required, depending on application needs and project scope.*



SUCCESS STORY

# Reducing Downtime at Gabriela Mistral Copper Mine

Location:



Customer:

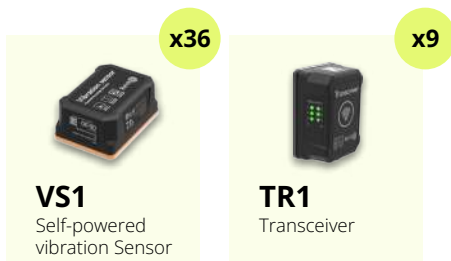


Codelco's Gabriela Mistral copper mine faced unplanned downtime and inconsistent screening performance across multiple vibrating screens. To enable continuous, cloud-connected condition monitoring, the site deployed ReVibe's ANURA™ Remote system, delivering synchronized vibration data for real-time analysis and decision support.

## Codelco's setup:

9 vibrating screens equipped with ReVibe Anura systems (4 sensors on each) to monitor screenbox and excitors. Connection to Simpro *Sentinel* system for data visualization and analysis.

## The ReVibe setup:



## Software & analytics:



## The challenge

Unplanned downtime and unstable screening performance reduced production efficiency. Existing monitoring methods could not provide dependable, continuous insight into screen health or early signs of developing faults.

## The solution

Nine vibrating screens were equipped with ANURA™ Remote systems – each with four self-powered VS1 wireless vibration sensors monitoring screenbox and excitors.

Continuous vibration data was collected and made available in real time through Simpro's Sentinel Orbits platform, enabling remote visualization, analytics, and predictive maintenance workflows.

**“Real-time insights from ANURA Remote help us reduce downtime and stay proactive.”**

– Maintenance Manager, Codelco DGM

## Results

- ✓ Improved predictive maintenance, reducing unexpected failures.
- ✓ Enhanced screening efficiency and optimized production output.
- ✓ Proven results, leading to the planned delivery of nine additional systems to another Codelco division.



TECHNICAL SPECIFICATIONS



**TR1 Transceiver**

<b>Power supply</b>	PoE, IEEE 802af
<b>Connections</b>	Up to 8 sensors
<b>Interface</b>	Neutrik RJ45 Ethernet
<b>Wireless Communication</b>	2.4 GHz
<b>Enclosure Material</b>	Hard-anodized aluminum, PA6
<b>Ingress Protection</b>	IP65
<b>Dimensions (HxWxD)</b>	140 x 98 x 60 mm
<b>Operating Temperature</b>	-40 °C to +80 °C



**VS1 Vibration Sensor**

<b>Power supply</b>	Self-powered w/ patented electromagnetic generator
<b>Operating frequency</b>	10-22 Hz at ≥1.5gRMS
<b>Accelerometer</b>	3-axis MEMS (±16 g, 16 kHz max)
<b>Sample rate</b>	Up to 16kHz
<b>Dimensions (LxWxH)</b>	135 x 98 x 60 mm
<b>Ingress Protection</b>	IP67
<b>Operating Temperature</b>	-40 °C to +80 °C
<b>Mounting</b>	3 x magnet mounts. Screw, adhesive tape or glue possible
<b>Communication</b>	2.4GHz, 50m line of sight

**Sensor-calculated values**

All values are measured and calculated in the sensors nodes, in X, Y and Z axes.

- RMS acceleration
- Peak amplitude of acceleration
- Frequency of the highest spectral peak
- Peak-to-peak amplitude of displacement
- Maximum recorded acc
- Root mean square amplitude of velocity
- Planar stroke calculated with method A
- Root mean square amplitude acceleration
- Crest factor of acceleration
- Peak amplitude of velocity
- Planar stroke calculated with method B

**Expanding possibilities with third-party tools**

Through partnerships with leading providers of data visualization, analytics and AI, our monitoring solutions integrate seamlessly with leading third-party software platforms such as Simpro Sentinel Orbits and ROSTA Digital, expanding your analytical capabilities.



**ROSTA Digital** is a cloud dashboard specifically designed for monitoring vibrating screens, sifters and feeders.



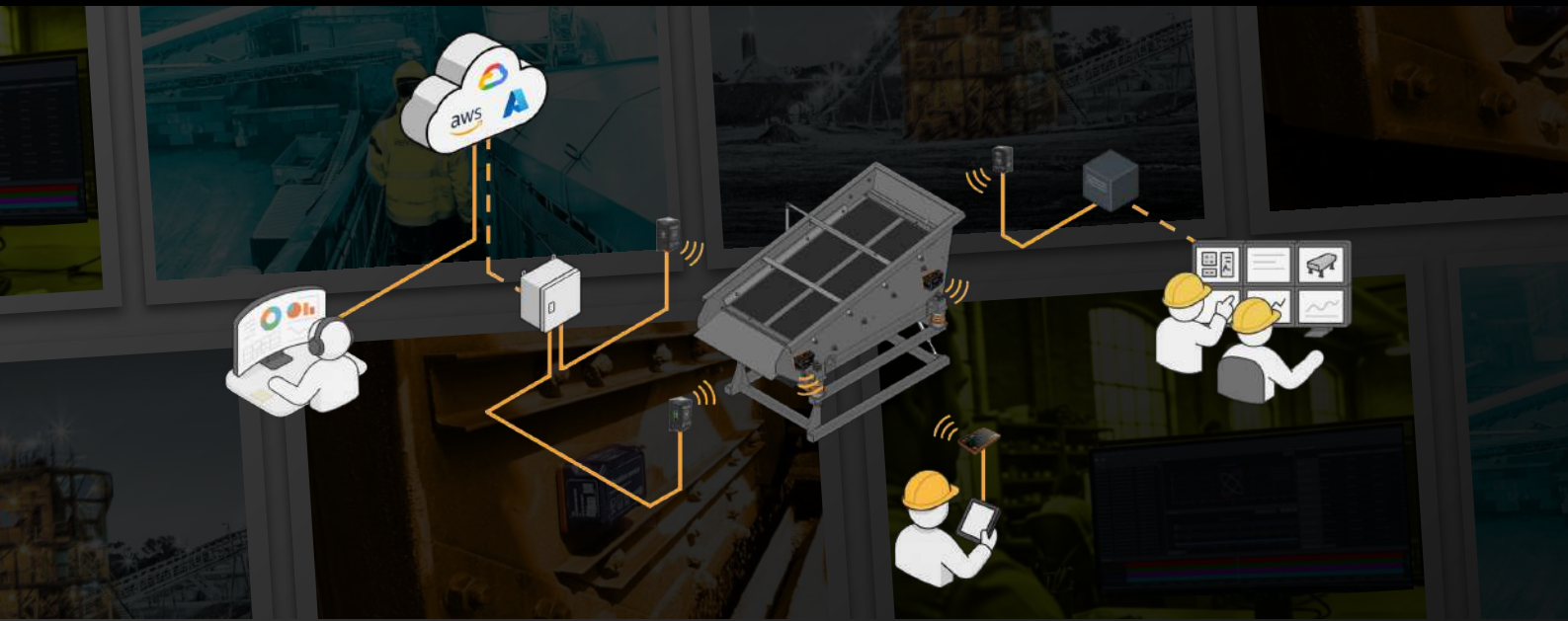
**Sentinel Orbits** is a module in the Sentinel TCMS Suite developed specifically for monitoring of vibrating screens.



GET TO KNOW

# ReVibe ANURA™

Wireless sensors that never run out of battery



## Smarter vibration monitoring for demanding industries

Built for the toughest industrial environments, **ReVibe ANURA™** turns vibration energy into actionable insight. Its self-powered wireless sensors continuously monitor vibrating screens, feeders, and similar assets to detect faults, measure process performance, and safeguard uptime. With real-time, synchronized data and no need for maintenance, ANURA™ helps you move from reactive to predictive operations.

### Vibration monitoring for your machines

No matter your setup, our wireless, self-powered sensors deliver real-time vibration data for automation, safety, and efficiency. Learn more about our open and configurable solutions for monitoring your vibratory equipment remotely, on-premises or in the field.

- ✓ **Advance automation**  
Reduce manual inspection and enable continuous, data-driven monitoring
- ✓ **Protect workers and assets**  
Limit exposure to hazardous areas through remote supervision
- ✓ **Boost operational efficiency**  
Gain real-time insights to optimize uptime and lower maintenance costs

### Our solutions:



#### ANURA™ Remote

Remote monitoring made simple – real-time data and analytics at your fingertips.



#### ANURA™ OnPrem

Local, self-powered monitoring with seamless integration to PLC and SCADA/HMI systems via Modbus TCP/IP



#### ANURA™ Field

Portable sensor kits for quick diagnostics and maintenance, visualized in ReVibe's Vibreshark software or the ANURA Connect app.



Get in touch to discuss your needs  
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