

# Save Time and Enhance Safety with Wireless Vibration Sensors

## Patrol Inspection System

Up to **100**  
measurements  
in ZARK Nano storage

Size: 28 mm (φ) × 50 mm(H)

Bluetooth

**No need for Wi-Fi on-site!**

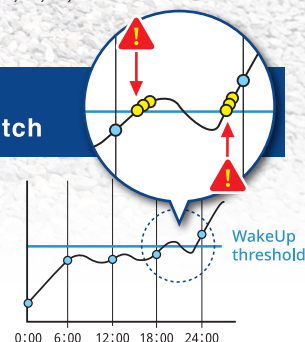
Approx. 40 m (LOS) wireless data transmission

**Enable flexible patrol intervals with up to 100 measurements storage capability**

- Triaxial vibration data (acceleration, velocity, Top 10 spectrum)
- Configurable data collection interval: 1, 2, 4, 6, 12 or 24 hours
- Temperature

**WakeUp function helps unpredictable anomaly data catch**

Up to 100 measurements of both the configured periodic and the unpredicted caught by WakeUp function

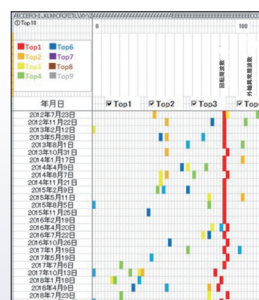


\*More details on the back page.

**Data for trend monitoring, analysis & diagnosis**

The data stored in ZARK Nano are collected with a smartphone during the patrol inspection and uploaded to the machine condition monitoring system infiSYS 3.0 for trend monitoring and failure predication diagnosis.

Functionalities of Top 10 Trend report and Top 10 Diagnosis report provide visual and statistical information on machine and bearing conditions that may facilitate the process of and save the time on machine maintenance related tasks.

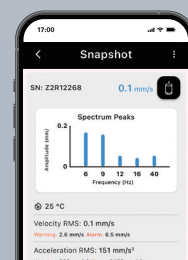


**On-site condition check with mobile App ZARK NI (Android/iOS)**



**Trend plot**

Latest 10 measurements or live update per second

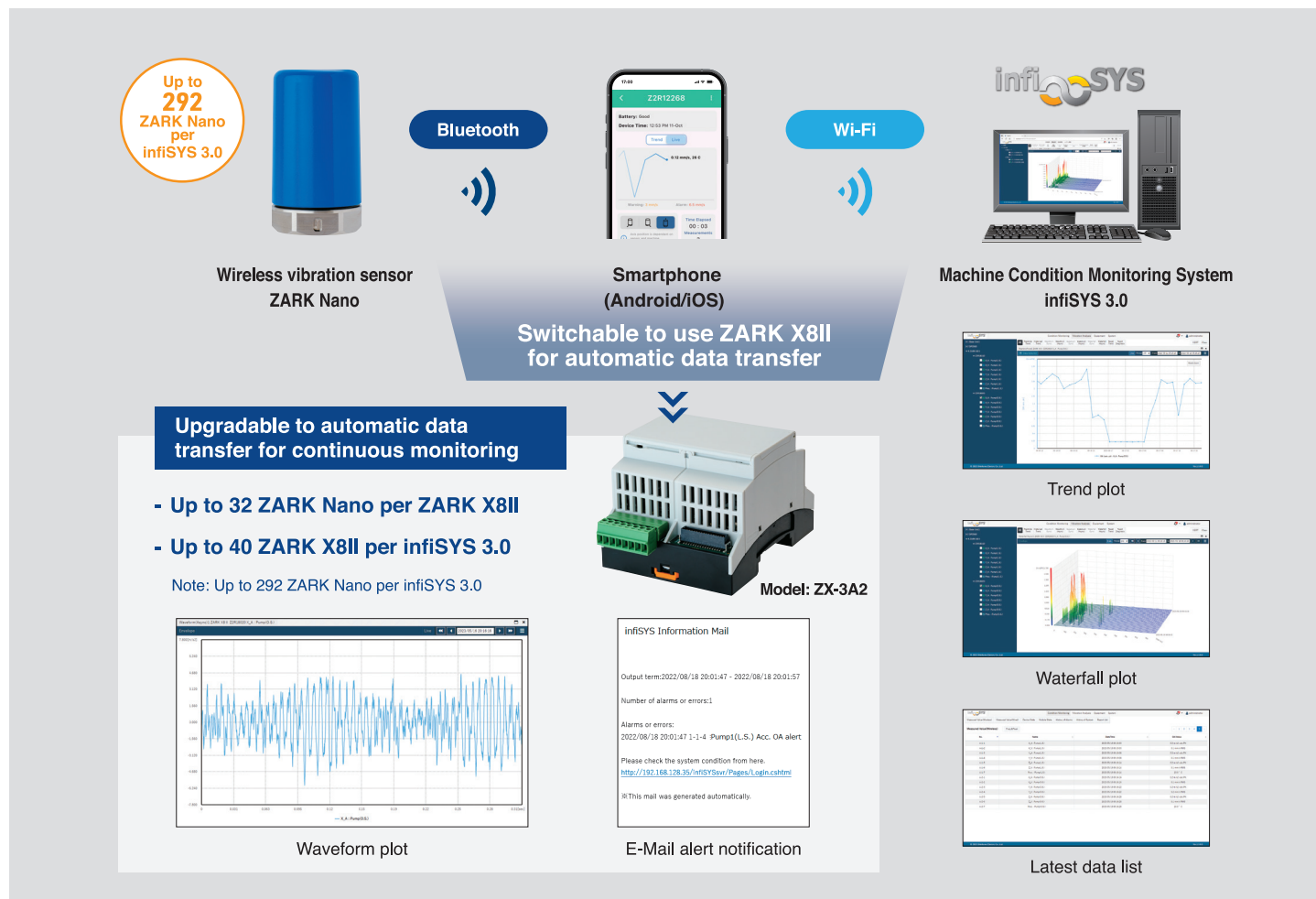


**Spectrum plot (Top 5)**


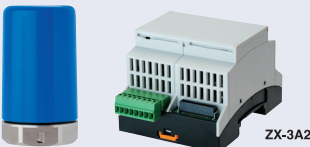
Live update every 2 secs. for Snapshot

## System diagram and scalability

ZARK Nano deployment growth/Switching to ZARK X8II based continuous monitoring.



## Specifications

Measurement parameters		Patrol Inspection (By mobile app ZARK NI)	Automatic data transfer (By gateway ZARK X8II)
			
1	Acceleration OA (3-axis)	rms (display in ZARK NI) cal. Peak (display in infiSYS 3.0)	cal. peak (display in infiSYS 3.0)
2	Velocity OA (3-axis)	rms (display in ZARK NI/infiSYS 3.0)	rms (display in infiSYS 3.0)
3	Temperature	✓	✓
4	Spectrum (3-axis)	Acceleration/Velocity (switchable): Top 10 Lines: 800/1600/3200 (selectable) (Snapshot in ZARK NI shows the data as 800 lines)	Acceleration/Velocity (switchable): Top 10 Lines: 800/1600/3200 lines(selectable)
5	Waveform	N/A	✓
6	Data collection interval	Periodic	Configurable Interval: 1, 2, 4, 6, 12 or 24 hours; half the intervals (min. 1 hour) when in Alarm state
		WakeUp triggered	Detection of over-the-WakeUp-threshold vibration will trigger an immediate data collection followed by two more with a 15 min. interval each
7	Data storage capacity	Up to 100 measurements (including WakeUp triggered)	Up to 100 measurements (including WakeUp triggered) for alleviation of data loss due to temporary communication break with ZARK X8II

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