

Treon Industrial Node C

Treon Industrial Node C measures tri-axial vibration and surface temperature of rotating equipment to detect abnormal conditions in industrial machinery performance. It powers a complete solution that minimizes unplanned downtime and enables the implementation of a predictive maintenance program. Treon Industrial Node C is an ideal device for monitoring equipment which does not require a long lead time to maintain and benefits from a cost-effective and easy to deploy monitoring solution.



Easy Setup and Installation



Easy to Scale



Temperature and Vibration

KEY FEATURES

- ✓ **Automated ML-based alerts**
 Treon Industrial Node C learns, using machine learning, what is normal behavior for a rotating equipment and detects changes in equipment condition. Providing feedback on alerts enables the machine learning model to re-learn and adapt to changes.
- ✓ **Market leading cost efficiency**
 Treon Industrial Node C offers a cost-effective solution, with minimal upfront costs, and pay as you go service to monitor even the lowest cost equipment in a scale, not feasible before.
- ✓ **Quick and easy to deploy**
 Glue sensors to equipment, power gateway, onboard those with smartphone application and start monitoring your equipment in minutes. No special skills required.

TECHNICAL SPECIFICATIONS

Wireless communication

- Bluetooth Low Energy 5
- NFC

Battery

- Lithium metal non-rechargeable batteries
- Lifetime up to 5 years
- (Battery life is dependent on ambient and mounting surface temperature)

Vibration data delivery

- 10-1000Hz velocity RMS, Peak,
- 10-1000Hz acceleration RMS, Peak

Temperature

- Measurement range -20°C to $+80^{\circ}\text{C}$ / -4°F to 176°F
- Resolution 0.1°C / 0.18°F

Accelerometer

- Triaxial acceleration measurement
- Dynamic range +/- 16
- Frequency range from 10Hz to 1000Hz
- Sampling rate 6600Hz
- Resolution 16bit

Treon Connect compatibility

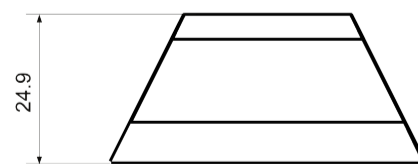
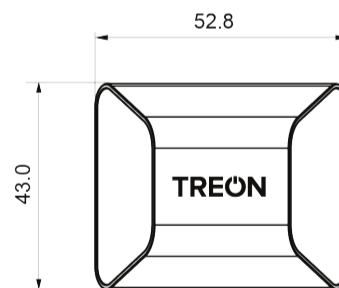
- Available only with a Treon Connect solution subscription
- Devices are fully integrated into the Treon Connect platform

COMMON SPECIFICATIONS

Dimensions	Weight	Mounting
52.8 × 43.0 × 24.9 mm / 2.08 × 1.69 × 0.98 in	54g / 1.90 oz	Direct gluing
		Epoxy mounting on flat surface

Materials	
Device	PA

Environment	
Operating temperature	-20°C to $+80^{\circ}\text{C}$ / -4°F to 176°F
Storage temperature	$+10^{\circ}\text{C}$ to $+30^{\circ}\text{C}$ / 50°F to $+86^{\circ}\text{F}$
IP rating	IP69



CERTIFICATIONS

Initially in 3Q/2025 Treon Industrial Node C will be available in Europe and United States. Other countries will follow starting 4Q / 25.

CONTACT

Treon Oy
 Visiokatu 3, 33720
 Tampere, Finland

sales@treon.fi
www.treon.fi

