



Abnormal vibrations or high temperatures give early signs of machine failure due to component imbalance, misalignment, wear or improper use of equipment. Those can be now effortlessly identified without manual measurements or expensive wired equipment to increase machine uptime and extend mean time between failures.

Treon Industrial Node is a wireless battery-operated condition monitoring device that measures tri-axial vibration and surface temperature of rotating equipment, such as pumps, motors and compressors.

From mesh to any cloud platform

Treon Industrial Nodes operate in a wireless mesh network for easy, cost efficient deployment and continuous monitoring of tens or hundreds of machines. Nodes send data directly or via other nodes to Gateways that connect the mesh to any cloud platform over wired or wireless network.

Configurable to any need

Treon Industrial Node can measure acceleration and temperature on configurable intervals or on request. Node can send raw acceleration data for post-processing in the cloud or it can perform mathematical calculations already on the edge and provide per axis RMS, Kurtosis and FFT (1Hz/bin).

Vibration

- Acceleration measurement on 3-axis
Axial, Horizontal and Radial
- Dynamic range +/- 4G
(configurable to 2, 4, 8 or 16)
- Frequency range 10-1000Hz
- Sampling rate 6600Hz
- Resolution 16-bit
- FFT resolution 1Hz/bin

Temperature

- Measurement range -40°C to +85 °C
- Resolution 0.1°C
- Accuracy +/- 2°C (mounting dependent)
- Repeatability +/- 0.1°C

Wireless communication

- 2.4GHz / Wirepas Mesh

Battery

- 3.6V lithium thionyl chloride
- Battery lifetime est. 3 years
(Battery life is dependent on
operating temperature and
configuration)

Dimensions

- 78.5 x 28 mm
- Mounting to M8 thread
- Weight 129g
- Cover material 316 ss
- Top cap material PE HD

Environment

- Operating -40°C to +85 °C
- Storage 30 °C maximum
- IP68 (dust-tight and resistant to water
up to 1m)

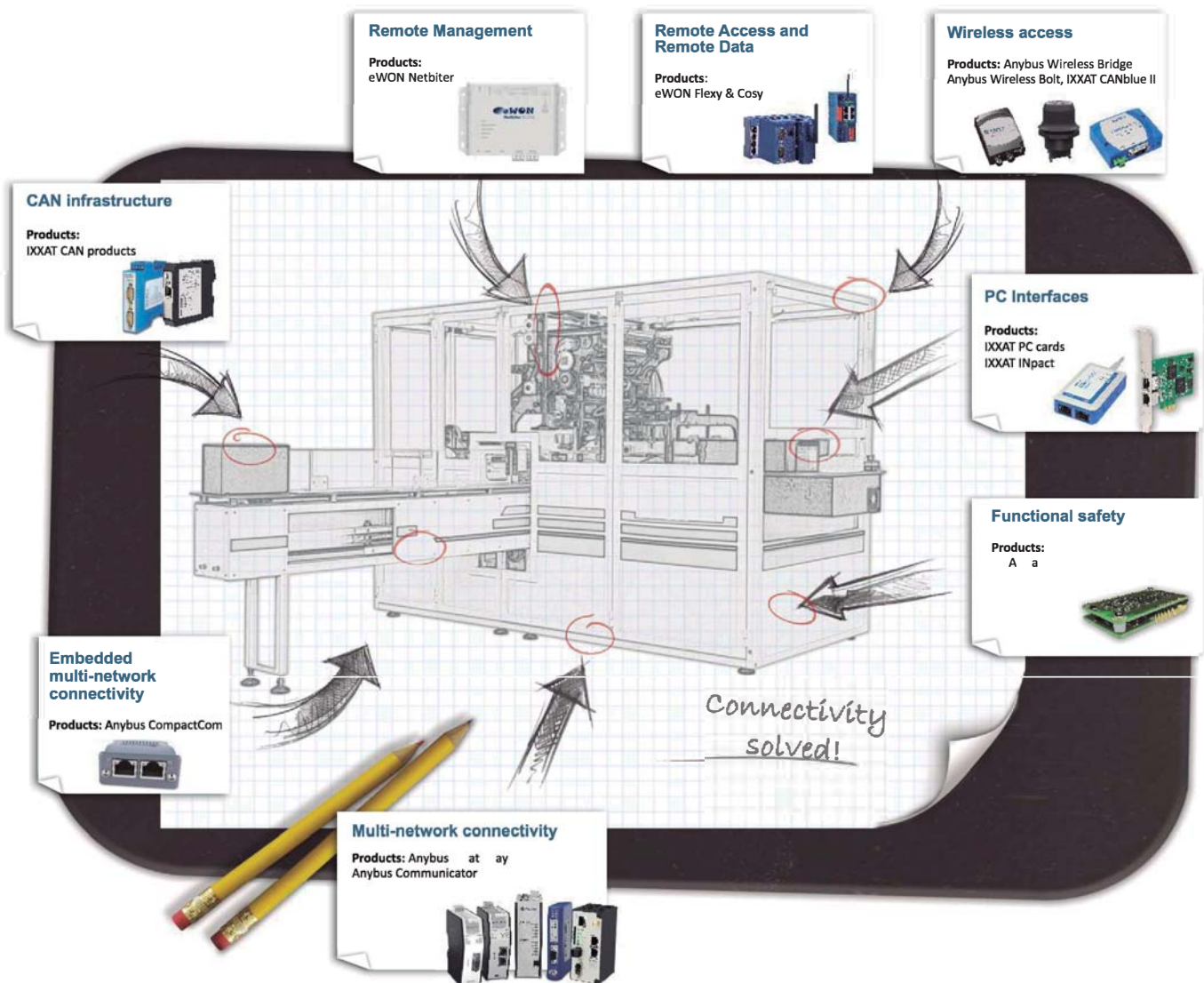
Designed for ATEX *

- ATEX II 2 G Ex ib IIC T4 Zone 1 & 2
- $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

Software

- Fully configurable data delivery and
integration to major clouds
- Customer cloud application
- Device management

* Currently not yet certified



Todo en Redes Industriales, Buses de Campo, Control de Proceso.

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