

The autonomous and best performance & environmentally friendly ventilator fan monitor for accident prevention



New projects using Aeinnova micro wind turbines





AEInnova Indu-eye Vibro Wind LoRaWAN → 1 Element

The wireless IoT device:

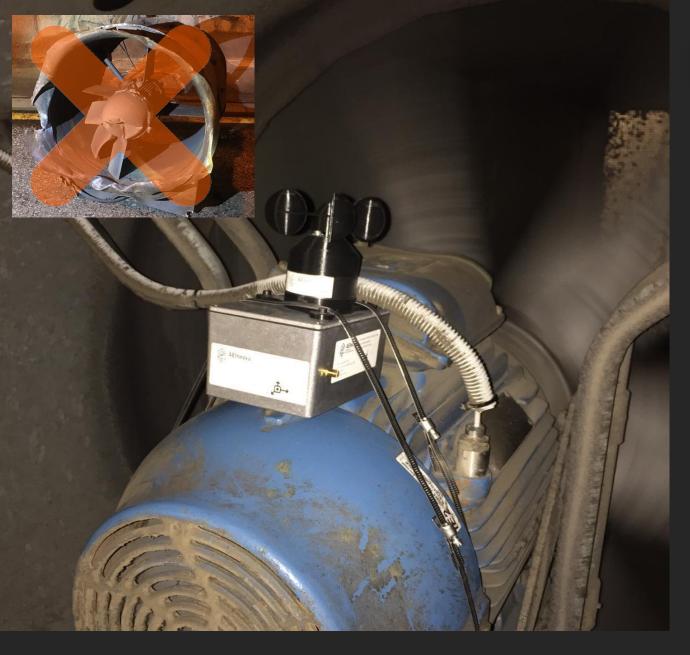
- o IP67
- CE Mark on going
- Wireless long range:
 - LoRaWAN (up to 14Km)) in Q2-2021
 - O NB-IOT / LTE-M (up to 22km) in Q4-2021
- No battery, no maintenance
- Energy source: Wind from 10km/h.



The sensor:

- 3 Axis vibration + Temp.
 - Up to 16g / 0.001g sensib.





All-in-one Use case for ventilation fan monitor



Vibration monitor in ventilation fans for tunnels (railways, highways...) to avoid accidents

Savings:

80% compared to wired solutions

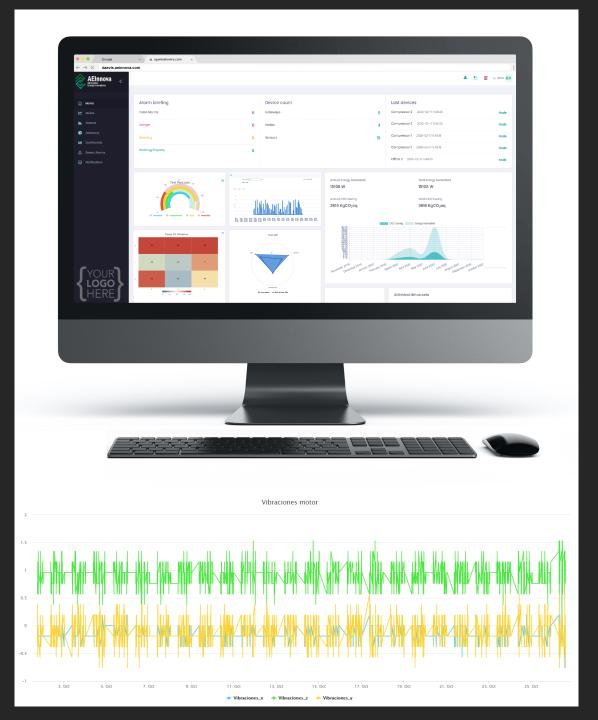
Main features:

- Low infrastructure: INDU-EYE → LoRaWAN Gateway → DAEVIS
- Long range coverage: 750m in this project
- Parameters:
 - Monitor: 3-axis vibration
 - o Precision: 0.008g
 - Max vibration: ±4g
- Wind source from 10Km/h
- Ready in Q2-2021.

Market segment

- Railways sector.
- Highway and road tunnels.
- Mining tunnels.



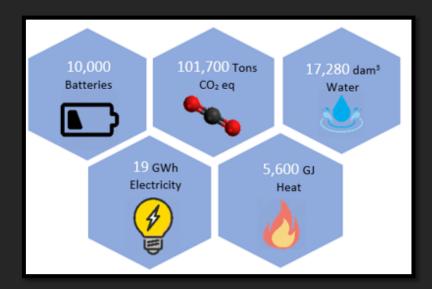


DAEVIS – Dynamic Aeinnova Visualizer

- O Software as a Service platform for Aeinnova's sensors and 3rd part
- O Dynamic Report
- O Alarms via pop-up, SMS, Telegram, Email...
- O Predictive maintenance
- O Integration with Scada or other platforms
- O Cost reduction up to 80% compared to other wired platforms.



Environmental Impact reduction > 98%





10,000
Indu-Eye

244 MWh
Electricity

5.01 GJ
Heat

1,733 Tons
CO₂eq
Water

7.8M€
battery
replacement

10,000 Wireless industrial sensors Battery-powered

10,000 AEInnova's Wireless industrial sensors self-powered by Heat / Wind





Certifications

CERTIFIED QUALITY MANAGEMENT SYSTEM BASED ON ISO 9001:2015 BY SGS



CE MARK for INDU-EYE LORA BY APPLUS

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CERTIFICADO DE EXAMEN UE DE TIPO

EU-TYPE EXAMINATION CERTIFICATE



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0370-RED-3781

EMITIDO POR / ISSUED BY	LGAI TECHNOLOGICAL CENTER - No. 0370 (APPLUS)			
SOLICITANTE / APPLICANT	ALTERNATIVE ENERGY INNOVATIONS S.L.			
FABRICANTE (Nombre, Dirección) MANUFACTURER (Name, Address)	ALTERNATIVE ENERGY INNOVATIONS S.L. (7 TELERS 5 - B, 2ND FLOOR, OFFICE 11 08221TERRASSA (GARCELONA – ESPAÑA)			
COMERCIALIZADO POR (marca) COMMERCIALISED BY (Brand)	AEInnova (ALTERNATIVE ENERGY INNOVATIONS S.L.)			
PRODUCTO PRODUCT	Heal-powered IoT vibration monitoring device using LoRa at 868 MHz protocol			
TIPOS TYPES	Indu-Eye LoRa Vibro			
Versión HW / SW HW / SW version	SW: v1.y.z HW: v1.y.z			
DIRECTIVA APLICABLE APPLICABLE DIRECTIVE	DIRECTIVA 2014/53/UE DEL PARLAMENTO EUROPEO Y DEL CONSEIO, DE 16 DE ABRIL DE 2014, RELATIVA A LA ARMONIZACIÓN DE LAS LEGISLACIONES DE LOS ESTADOS MIEMBROS SOBRE LA COMERCIALIZACIÓN DE EQUIPOS RADIOELÉCTRICOS DIRECTIVE 2014/53/EU OF THE EUROPEAN PARLAMENT AND OF THE COUNCIL OF 16 APRIL 2014 ON THE HARMONISATION OF THE LAWS OF THE MEMBER STATES RELATING TO THE MAKING AVAILABLE ON THE MARGET OF MAIO EQUIPMENT			
DESCRIPCIÓN DESCRIPTION	Sistema de monitorización loT de vibraciones alimentado por calor, utilizando protocolo LoRa a 868MHz. Heat-powered loT vibration monitoring device using LoRa at 868 MHz protocol.			
CUMPLE CON LOS REQUISITOS ESENCIALES MEET ESSENTIAL REQUIREMENTS	Art.3.1a Salud y Seguridad / Art.3.1a Health & Safety		Art. 3.2 Uso eficiente del espectro radioeléctrico / Art.3.2 Efficient use of Radio spectrum	×
	Art.3.1b EMC / III		Art 3.3 Características especiales / Art.3.3 Special characterístics	

Este documento carece de validez sin su anexo, cuyo número coincide con el del presente certificado. // This document in not valid without its technical annex, whose number coincides with the number of the certificate.

La evaluación de la documentación técnica entregada se encuentran recogidos en el expediente técnico número: 19/31702715

The evaluación of the technical documentation delivered is included in the technical file number: 19/31702715

The evaluation of the technical documentation delivered is included in the technical fi

Restrictiones (si aplican) / Restrictions (if apply):

Bellaterra, 19 de Noviembre 2019 // 19th November 2019







Esta Cordicade es visible ministras en se producios combise en el estado de la feicha que indigen que el esquipo adelectricio perchado y no enpode cumple los requisitos esemblado de la hecicla 2014/35/87 en hoya redificaciones en el tilo operativo de puedani efecta la conformidad com los requisitos escriciola de de la Declario 2014/35/81. Tha Condicate is valid as litros que time en en changes in the prior art indicates that the approved radio explorment can bronge meet the essential requirement of Directive 2014/35/81 and there are no molifications of the approved high but the way efection. Accordance with the essential requirement of Circuito 2014/35/81 and there are no molifications of the approved high but the way efection.

LGAI TECHNOLOGICAL CENTER

Thanks for your attention

David Comellas - CEO

Raul Aragones – Business Developer

Click on banners for EU granted projects ongoing











