



ACTIONABLE INTELLIGENCE

Beyond Preventative Maintenance: IoT for Industry

Inatex is providing the next generation of asset protection technology by partnering with a Silicon Valley company which specialises in hardware design and algorithm development. Their core product is an industrial IoT platform that can predict equipment failures before they occur.

The IoT platform hardware consists of configurable architecture that can accommodate several sensors and wireless protocols. The small form, low power design guarantees multi-year battery life and is easy to install. With native support for motion sensing, vibration analysis and condition monitoring, the flexible architecture allows processing at the edge using an on-board high speed processor, meaning less overhead data is transmitted. The platform extracts latent data from equipment and the environment and converts it into *actionable intelligence*.

- ❖ **Address developing faults:** Detect small changes and trends and fix issues before they become major problems
- ❖ **Identify premature ageing:** High precision algorithms detect loading patterns
- ❖ **Reduce unplanned outages:** Transition to just-in-time maintenance
- ❖ **Gather equipment health information:** Collect data from assets while they are operational

The technology platform supports a range of sensor configurations and wireless communication protocols and is completely configurable based on client specifications and requirements; allowing proprietary sensor fusion and signal processing algorithms to convert raw data into actionable facility and environment intelligence. Thousands of sensor devices may be supported simultaneously with the ability to provision, track, and enable sensor 'nodes' remotely. The technology detects condition anomalies and processes alerts in real time (via email, SMS, legacy systems, social media etc.). A visualisation platform which delivers real-time information on PC and mobile devices is provided, allowing the monitoring of equipment health in real time.

Improve the reliability and efficiency of your operations using real-time asset monitoring. *Beyond Preventative Maintenance:* The possibilities are endless.

Sensors Currently Supported:

**Motion
(including vibration)**

Ambient Temperature

**IR (object)
Temperature**

Barometric Pressure

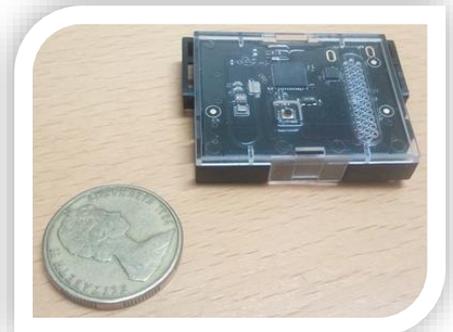
Humidity

Ambient Light

Microphone

Camera

GPS



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