

# i-ALERT<sup>®</sup> 3

## Next Generation Machine Health Sensor

i-ALERT3 packages leading technology with decades of monitoring and rotating equipment experience to provide an accurate, flexible, scalable and easy to use machine health sensor. The i-ALERT3 features Bluetooth communication for easy set-up via the i-ALERT Mobile App as well as expansion capabilities through the i-ALERT Gateway and Ai Platform. This wireless device enables you to easily monitor a variety of equipment throughout the plant – including those in hazardous areas – at a cost-efficient level.

Combining the i-ALERT3 sensor with the rest of the i-ALERT ecosystem, including i-ALERT Automated Diagnostics, allows you to easily understand your machines health and what actions need to be taken.

The i-ALERT3 builds on popular features: accurate and reliable data, full-spectrum vibration FFTs, temperature measurement, run-time calculations, automatic alarm checking, on-board data storage. Added to this are a field replaceable battery, wide vibration frequency measurement range, vibration data available in acceleration and velocity, a motor flux sensor and over-the-air updates.

This combination of features, along with the i-ALERT ecosystem, provides a market leading asset health solution.



### Technical Specifications: i-ALERT3

Vibration: 3-Axis, 4Hz-5kHz (X,Y,Z)

Spectrum: 1Hz – 5kHz (0.5Hz/bin) (X,Y,Z)

Temperature: -40°C to +84°C (-40°F to +183°F) T3

-40°C to +60°C (-40°F to +140°F) T4

Data Storage: 170 Days (based on hourly data)

Analysis: Machine Run-Time, Vibration Spectrum,

User defined Vibration bands, Motor Electrical Health Trending

Wireless: Bluetooth 5™, Range 30-100m (100-300ft)

Power: Lithium Battery, 2-3 Year Average Life (use dependent)

Environment: IP68 / NEMA4x, Intrinsically Safe Class 1 Div 1 (Zone 0)

- Easy installation and setup
- Flexible and scalable to grow with you
- Effortlessly accessible data: i-ALERT Mobile App, web-based Ai Platform or Automatic Reports
- Sophisticated analysis features: full spectrum FFT and time waveforms, vibration velocity and acceleration, band alarming, 4-5,000Hz measurement range, motor flux
- i-ALERT Automated Diagnostics to recognize issues on Day 1
- Future-compatible sensor platform with field replaceable battery and over-the-air updates
- Over-the-air updates for remote delivery of the latest features and functionality
- Fast ROI with actionable information

# What it does:

## Monitor

Tracks vibration, temperature, and magnetic flux & run-time hours 24/7/365.

## Alarm

Takes high resolution data when an alarm condition occurs and stores it for later analysis.

## Trend

Captures data every 0.5s -60 minutes and has up to 170 days of hourly on-board storage.

## Analyze

Diagnose machine faults with vibration tools Fast Fourier Transform (FFT) & Time Wave Form Analysis.

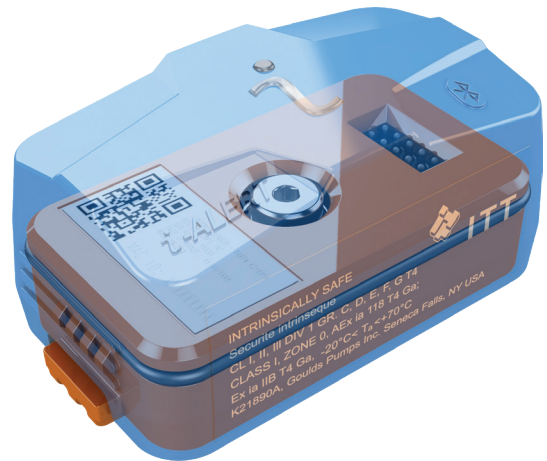
## Environment

Intrinsically Safe with a 2-3-year battery life (use dependent). Water & dust resistant.

- Class 1 Div 1
- ATEX Zone 0 AEx ia IIB Ga (Groups C & D)

## Wireless

Sync data via Bluetooth 5.0 to Android or Apple Smartphones and tablets, or i-ALERT Gateway.



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