PRO services

i-ALERT®2

Equipment Health Monitor

Bluetooth® SMART

ITT

ENGINEERED FOR LIFE

i-ALERT®2

What it Does:

Monitor
Tracks vibration, temperature & run-time hours 24/7/365.

Alarm
Checks every five minutes & alarms if equipment is outside normal operating conditions.

Trend
Stores data once per hour & on alarm for 30 days. Stores the weekly average, minimum & maximum up to 5 years.

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

Environment
Rated for any industrial environment. IP67 water & dust resistant. Intrinsically Safe with a 3-year battery life (use dependent).

Wireless
Sync data via Bluetooth Smart enabled smartphones and tablets.

Spend less time collecting data and more time fixing problems. The *i-ALERT®2* mobile app has the ability to scan multiple *i-ALERT®2*s within range to quickly and safely inspect multiple machines.

How it Works:

1 ACTIVATE

The *i-ALERT devices* are light activated by removing the sticker. *i-ALERT®* begins wirelessly broadcasting once activated.

2 AUTO CONFIGURATION

i-ALERT2 averages the vibration over 25 hours of run-time and sets the alarm levels to 2 x average (0.08ips minimum). Temperature alarm default to 80°C (176°F).

OR

2 MANUAL CONFIGURATION

User manually sets the alarm thresholds via the *i-ALERT®* mobile application.

3 MONITOR

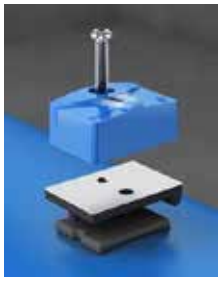
i-ALERT checks every 5 minutes. If two consecutive readings are above alarm threshold the *i-ALERT* will go into alarm.

Mounting Options:

Mill a slot

Drill & tap

Epoxy[1]



[1]Epoxy not included

Monitor, Alarm, Trend, Analyze

Dashboard

Simple, intuitive dashboard to track vibration, temperature, run-time & battery life.

Trending

Trend vibration, temperature, & kurtosis to monitor any changes in the equipment operation.

Advanced Tools

Download or request a Fast Fourier Transform (FFT) & Time Wave Form to perform vibration analysis.

Pump Performance Curve*

Load the pump performance curve based on the pump serial number.

Report Generator

Generate a machine health report and send the report via an email.

Service Locator

Locate and contact the nearest ITT Service Center.

* Currently available for select ITT Goulds Pumps models

Technical Specifications

Dimensions
- 57mm L x 39mm W x 25mm H
- 2.24in L x 1.54in W x 1.04in H

Measurements
- Temperature
- 3 Axis Vibration (RMS Velocity)
- Kurtosis
- Machine run-time counter
- Fast Fourier Transform (FFT)
- Time Waveform (TWF)

Sensors
- 3-axis accelerometer ±16g
- Frequency range:
  - axial - 10-1,000Hz
  - horizontal - 10-1,000Hz
  - radial - 10-600Hz
- FFT resolution: 1Hz/bin
- Temperature sensor -40°C to +150°C (-40°F to +302°F)

Memory
- x,y,z velocity rms, kurtosis, temperature
- Short term: 1/hour for 30 days
- Long term: weekly summary (min,max, average) for 5 years

Environment
- Ambient temperature: -40°C to +84°C (-40°F to +183°F)
- IP67 water and dust protected
- Intrinsically Safe
- Class I, II, III, Division 1 Groups C,D,E,F,G
- ATEX Zone 0 AEx ia IIB Ga (Groups C & D)
- RoHS, WEEE, REACH, CE, FCC

Battery & Power
- 3.6 V Lithium battery
- Life expectancy > 3 years (use dependent)

Materials
- Shell Material: Nylon 12
- Mounting Stud: 316ss

Display
- Green LED for unit ON
- Red LED for unit in ALARM
- Blue LED for Bluetooth radio transmitting

Wireless Synching
- 2.4 GHz Bluetooth 4.0 Low Energy
- Syncing range: 30m (100 feet)
- Syncing devices: iPhone 4s/5/5s/6/6 Plus, iPad 3/4/Air/Mini, Android coming soon

Hazardous Rated Devices & Case

pictures courtesy of www.Xciel.com

Devices
- iPhone 4s/5/5s/6/6 Plus
- iPad 3/4/Air/Mini

Hazardous Ratings
- CSA Class 1 Division 2 Groups A,B,C,D, T6
- ATEX Zone 2 Ex ic IIC T6 Gc

Certifications
- ANSI/ISA Std 12.12.01
- ANSI/UL Std 60950-1
- CAN/CSA std C22.2 No. 60950-1
- CSA Std C22.2 No. 213

Environment
- IP67 (Water / Dust Resistant)
- Humidity 5% to 95% non-condensing
- Opertating Temperature -4 to 102°F (-2 to 39°C)

ITT
ENGINEERED FOR LIFE

GOULDS PUMPS | Bornemann | Engineered Valves | PRO services | Blakers | Ctreat

240 Fall Street
Seneca Falls, NY 13148
www.i-alert.com

B.iALERT2.en-US.2015-06