

# Predict<sup>+</sup>Plus™

YOUR PUMP WANTS TO TALK TO YOU™

Predict-Plus is the only wireless, cloud connected, continuous machinery health monitor designed specifically for your rotating equipment needs.



## Always On

Predict-Plus is CONTINUOUSLY monitoring and logging your pump's health.



## Class 1, Division 1

Intrinsically safe



## Vibration

Self-Calibrating Tri-Axial Accelerometer to capture FFT and RMS vibration data.



## Bearing Temperature

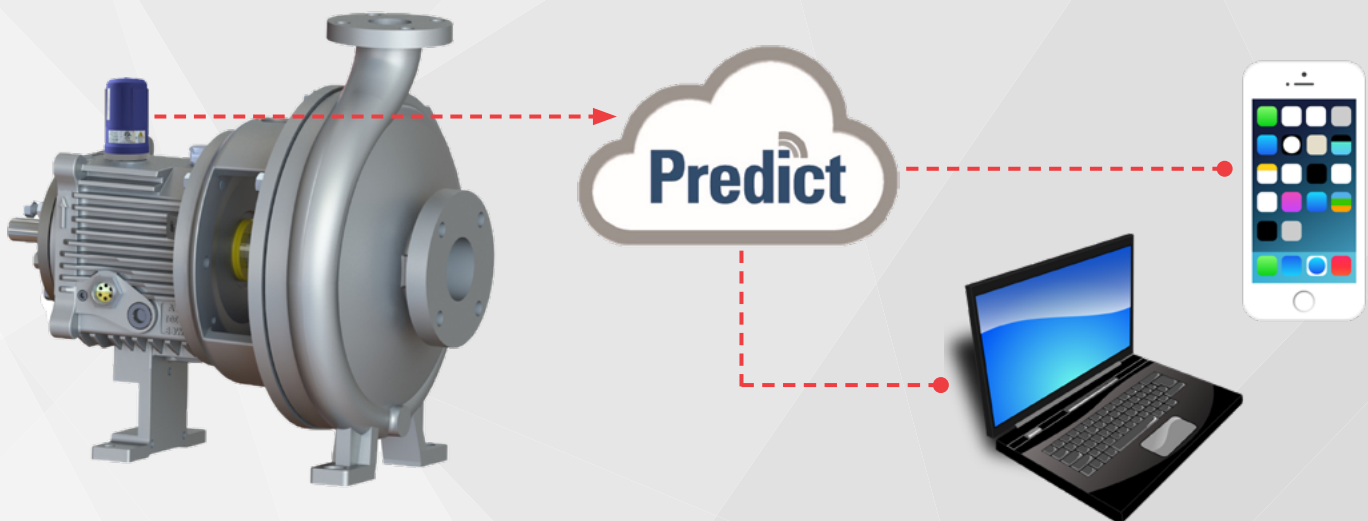
Integrated RTD for bearing temperature monitoring.



## Alerts

Proactive alerts via email and SMS from Predict-Cloud.

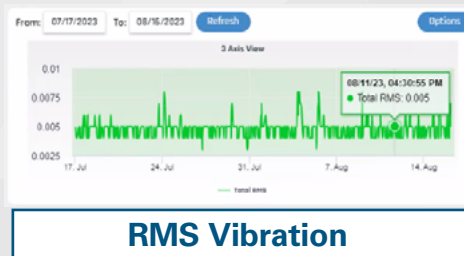
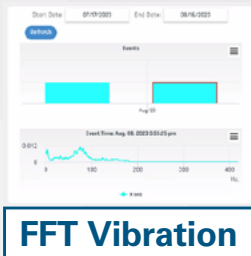
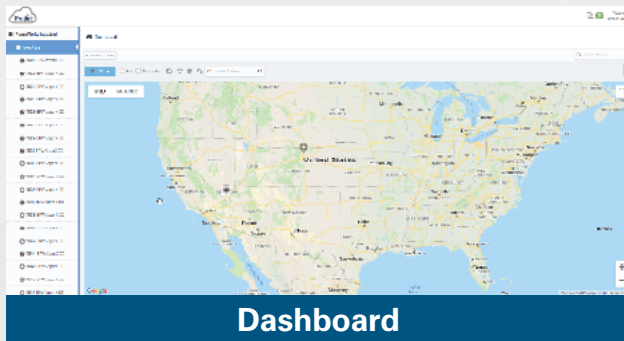
- 24/7 online vibration and temperature monitoring device
- Automatic device registration on the cloud via cellular interface
- Proactive alerts from the Predict-Cloud
- Long term storage of trend data including Fast Fourier Transform (FFT)
- Affordable & available for new and existing rotating equipment



# Predict<sup>+</sup>Plus™

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**Predict-Cloud is a powerful tool in attaining the goal of reducing maintenance spending and increasing MTBR (Mean Time Between Repairs). By instantaneously identifying detrimental system conditions prior to catastrophic machine failure.**



Visit [predict-cloud.com](https://predict-cloud.com)



## Physical

- Footprint: 2.36" x 4.57" including thread
- Case Material: Stainless Steel and Nylon
- Battery Voltage (3 AA): 4.5VDC
- Mountable via integrated .48" NPT stud or with 1/4"-20 tapped hole

## EDGE Computing

- Tri-axial vibration monitoring IPS
- Temperature monitoring  $\pm 5^{\circ}\text{F}$
- Machinery health data trending
- Real-Time Axial, Vertical, and Horizontal RMS
- Real-Time Axial, Vertical, and Horizontal FFT
- Operational time monitoring

## Notifications

- RMS threshold cross alert
- High data trending alerts
- Temperature threshold cross alert
- Low battery alert

## Communication

- Within the US, the device can communicate over AT&T, T-Mobile, or Verizon 4G LTE depending on optimal service in the area.
- Global chipset for communication in 107 countries without additional communications hardware.

## Operation Modes

Battery (Low Power): 3 AA; Up to 4 samples per hour and 2 scheduled cloud uploads per day.

- Battery Life: 1 year in temperatures  $-40^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$  (Energizer Ultimate Lithium)
- Batteries must be changed in an area free of ignitable concentrations.

## User Interface

- Internet Browser: Microsoft Edge, Google Chrome, Mozilla Firefox, Apple Safari [www.Predict-Cloud.com](https://www.Predict-Cloud.com)
- Mobile App: Predict-Cloud on iOS and Android

## Standards

Class I, Division I Certified

- Groups D T1 Class I Zone 0 AEx ia IIA T1 Ga ETL21CA104533094X Ex ia IIA T1 Ga
- Certification Number ETL21CA104533094X IP66/NEMA 4X enclosure RoHS Compliant

## Environmental Conditions

- Operating Temperature:  $-22^{\circ}\text{F}$  to  $+158^{\circ}\text{F}$
- Relative Humidity: 90%
- Water & Dust Spray Resistant (IP66)