

Bearing Fault Transmitter

AssetScan Condition Monitoring Solution – Model ASB



The power of analytics. **Delivered.**

The AssetScan Condition Monitoring Model ASB – Bearing Fault Transmitter, provides a way for all manufacturers to improve their operations and asset management with predictive analytics and condition-based decision making. Sensor measurements are logged and transferred up to the cloud. The newly-intelligent device data is available on any internet connection via the web-based ATEK Intelligence Platform. The all-in-one monitor includes cellular connectivity and battery power to insure easy installation anywhere whether it is a temporary, semi-permanent or a permanent install.

Improve plant operations with intuitive data visualizations, alerts, and insights into equipment interactions and reactions. The possibilities are endless with the sensor-agnostic AssetScan Condition Monitoring solution family.

Top five use cases:

1. Root Cause with data (Crash Cart)- troubleshoot intermittent or repeat issues.
2. Acceptance testing - of mechanical health during startup through fully loaded.
3. Death Watch - monitor suspect or bad actors to gauge if running to the next planned outage is possible.
4. Remote monitoring of essential assets that are offsite, out of sight, out of mind, or infrequently run.
5. Continuous Condition Monitoring of critical equipment providing early warning to avoid unplanned downtime and allowing scheduled maintenance during a normal outage.

Condition Monitoring

- Bearing fault detection
- Cavitation
- Lack of lubrication
- Imbalance
- Misalignment
- Looseness

Model ASB Outputs

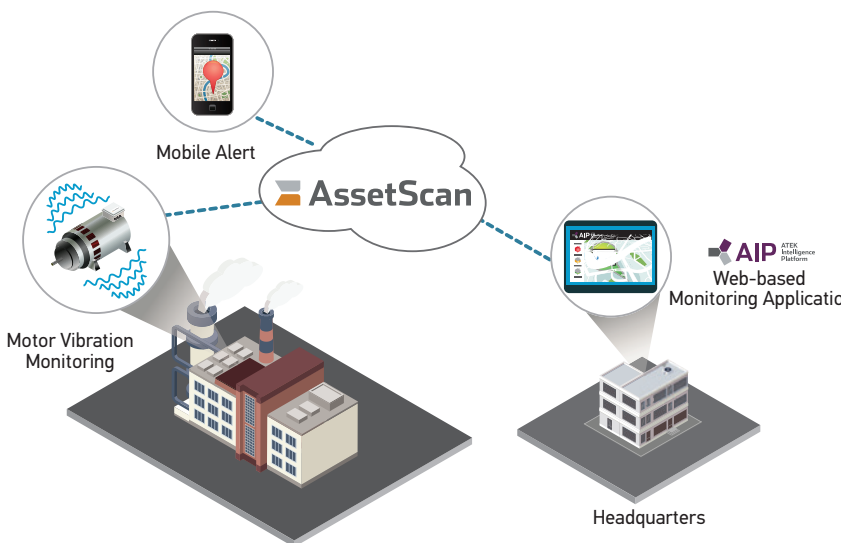
- Bearing fault
 - High frequency peak
- Overall vibration
 - Low frequency

System Functionality

- Built-In cellular connectivity
- Fully-contained battery powered sensor monitoring solution

AssetScan Cloud Capabilities

- Condition-based alerting
- Data collection, storage and visualization
- User management and alarm escalation
- Data export to common formats
- System integration with application programming interface (JSON and XML compatible)



ASSETSCAN BEARING FAULT TRANSMITTER SPECIFICATIONS

MODULE TYPE	
Carrier	AT&T, T-Mobile
3G Bands	HSPA/GSM Band B1, B2, B4, B5, B6, B8 (AT&T, T-Mobile)
Antenna	Internal Patch
MANAGEMENT	
Configuration	ATEK Intelligence Platform (AIP)
SENSING TECHNOLOGY	
Sensor	ICP 100 mV/G Accelerometer with Magnet Mount, 30 ft Armored Cable
Bearing Fault Detection	Emerson AMS 9330VP
POWER	
Battery	Rechargeable, 12 VDC, VRLA, 7Ahr
Battery Life/Charge	Approximately 2000 Readings
PHYSICAL	
Dimensions	11.8 in x 8.5 in x 3.8 in (without cable glands)
Weight	10.5 lbs (with battery)
Enclosure Material	Polypropylene
Rating	IP67
ENVIRONMENTAL	
Operating Temperature	0° C to 50° C (32° F to 122° F)
Storage Temperature	-40° C to 75° C (-40° F to 167° F)
Humidity	90% Non Condensing
DATA CENTER	
Certifications	SAS70 Type II and SSAE 16 Certified Data Center, Reports Available Upon Completion of a Non-Disclosure Agreement
Encryption	Sensitive Personal Information - Stored Encrypted, Two Way Data Encryption Utilized for Device to Data Center Communications, Encrypted Data Storage Available.
Disaster Recovery	AIP Application and All Data Backed Up to Offline Data Storage at Data Center and to Offsite Secure 3rd Party Storage Facility



ATEK Access Technologies will be there every step of the way, ensuring seamless installation and integration with every asset and enterprise system. And ATEK will continue to provide full-time support with award-winning ATEK Service Platform (ASP). ASP continuously monitors the health of devices in the field, preventing dead batteries, missed reports and data over usage. ATEK service personnel are alerted if any of these areas need attention, and will contact and troubleshoot to eliminate problems. Keep the focus on asset condition monitoring knowing that ATEK Service Platform is monitoring the devices.



SPECIFICATIONS

ATEK INTELLIGENCE PLATFORM

Viewing Platform	Mobile, Tablet, PC, Any Internet Connection
Notifications	<ul style="list-style-type: none"> • Multiple Levels of Alerts • Tailored to Each Monitored asset • Based on Any Measured Variable
Users Accounts	<ul style="list-style-type: none"> • Unlimited Accounts • Roles Based on Level of Accessibility
User Notifications	<ul style="list-style-type: none"> • Configured for Unlimited Number of Users
Alert Notification Methods	<ul style="list-style-type: none"> • Text • Email
Reporting	<ul style="list-style-type: none"> • Historical Data is Viewable and Downloadable