

Maximizing ROI with Mobile Maintenance Management Technologies



The Challenge

Asset integrity management, or AIM, is a plan for verifying that equipment is designed, installed and maintained properly to ensure its safe and effective functioning over the lifespan of an industrial asset. AIM helps reduce the risk of equipment failure, ensure the safety and reliability of its operation, secure associated data, maintain regulatory compliance, and generally optimize the lifespan and performance of **assets**.

But AIM is costly, with **data** showing that maintenance management typically comprises at least 40% of a business's total operational budget. In industrial environments where combustible materials are present, such as chemical or pharmaceutical manufacturing or oil and gas operations, asset maintenance encompasses heavy machinery and myriad parts operating together in large systems, so their damage or failure is extremely costly. Shutdowns, turn-arounds and outages (STO) and even regular maintenance often require shutting down assets if technicians do not have the certified mobile devices they need to efficiently and safely perform inspections during **operation**.

Effective and efficient maintenance management is challenging in industries with potentially combustible hazardous areas because only specially designed and certified mobile devices are permitted. Without the ability to manage data digitally, technicians must rely on the slower method of collecting data with pen and paper and performing analysis or scheduling maintenance at a later time outside of the hazardous area operations.

The Solution

Cloud-based asset performance management (APM) systems running on mobile devices approved for hazardous area operations, like **aegex10™ Intrinsicly Safe Tablets**, can help companies better manage their assets

aegex10™ Intrinsicly Safe Tablet



The **aegex10™ Intrinsicly Safe Tablets**, a Windows 10 device that is globally certified for use in potentially explosive Class I Division 1 and ATEX/IECEx Zone 1 hazardous areas, would allow manufacturers to digitize their activities and connect to real-time information and communications.

- ✓ **Intrinsicly Safe C1D1, ATEX/IECEx Zone 1**
- ✓ **4G LTE, WiFi**
- ✓ **IP65**
- ✓ **Bluetooth, NFC, GPS**
- ✓ **-10°C to +50°C**
- ✓ **12-hour battery**
- ✓ **980g / 2.16lbs**
- ✓ **Optional hands-free carrying case, stylus**
- ✓ **IoT ready**





aegex10™ Intrinsicly Safe Tablet

With Aegex tablets, maintenance and operations personnel can quickly and safely perform various asset integrity tasks, including:



- ✔ **Completing digital forms** for inspections and checklists
- ✔ **Performing** risk-based inspection (RBI) analysis of corrosion, pitting, misalignment, cracking or other wear of an asset
- ✔ **Capturing** photo and video data about assets
- ✔ **Consulting** digital manuals or other information
- ✔ **Communicating** with offsite experts and team members
- ✔ **Ordering** replacement parts or service
- ✔ **Inventorizing** assets
- ✔ **Accessing** equipment design information, maintenance records and process safety management information
- ✔ **Performing** asset integrity data analysis onsite
- ✔ **Recording** data to cloud-based back office systems for compliance purposes

Digital APM records that are time-stamped and easily accessible enable various teams to use them, easing transition between shifts and syncing information among multiple maintenance personnel. Capturing asset integrity digitally also improves accuracy, versus recording data with pen and paper and then having to enter that data into digital systems offsite at a later time.

The Results

Performing asset integrity maintenance with aegex10™ Intrinsicly Safe Tablets in hazardous area operations drives significant return on investment (ROI) for asset-intensive industries. **When industries such as chemical, pharma, oil and gas and others with hazardous environments utilize Aegex tablets, they can:**

- ✔ **Perform** certain asset integrity checks during regular operation without shutdown
- ✔ **Complete** asset maintenance more quickly
- ✔ **Capture** real-time data
- ✔ **Analyze** data onsite
- ✔ **Make** data-based decisions
- ✔ **Predict** and prevent potential asset integrity problems
- ✔ **Mitigate** risk
- ✔ **Save** millions of dollars in averted downtime



Let Aegex Technologies help you plan the most appropriate mobile and IoT strategies for managing asset integrity in your operations.

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Aegex delivers innovative solutions that drive improved performance for industries with hazardous environments. Our globally certified intrinsically safe tablet provides cloud connectivity to personnel working in some of the world's most volatile environments in public safety, oil and gas, chemical, pharmaceutical and other industries with potentially explosive atmospheres. The tablet can work in conjunction with our NexVu IoT Solution of sensor modules and cloud services to form an Industrial Internet of Things (IIoT) that improves safety, efficiency and productivity in hazardous operations.

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