

# Scheduled System Maintenance for AMS Online Machinery Prediction Systems

- Standardize your maintenance approach
- Reduce operations and maintenance costs
- Experts perform service execution



*Achieve and sustain peak operational performance for our Prediction Systems.*

## Introduction

Regularly scheduled maintenance is critical to ensuring the longevity and peak performance of your system.

Scheduled System Maintenance for your AMS Online Machinery Prediction System meets your plant's specific and comprehensive needs. It addresses your operational and business imperatives and challenges by:

- Keeping your plant operating safely, consistently and economically.
- Improving and preserving your asset reliability and investment over time.

Emerson service engineers will perform a prescribed set of maintenance tasks using a standard and proven procedure. This expertise is supported by more than 40 years of experience in predicting rotating equipment for thousands of customers worldwide.

Emerson recommends customers purchase Scheduled System Maintenance for AMS Online Machinery Prediction Systems. This program provides site services to proactively maintain and continually advance and enhance your Emerson prediction system installations.

With this program, you can keep your prediction system hardware and software maintenance requirements up-to-date while maintaining a flexible path forward to new technology and features.

## Benefits

**Standardize your maintenance approach:** The Scheduled System Maintenance service represents a standardized and proactive maintenance methodology provided by Emerson to help customers operate their prediction systems safely and dependably, day after day. Scheduled System Maintenance changes the maintenance from a fail and fix approach, to predict and prevent approach. The objective is to proactively identify shortcomings that can impact system continuity, performance and availability.

**Reduce operations and maintenance costs:** Scheduled System Maintenance will minimize the chance of unexpected emergency service calls and costly equipment failures. Emerson technical expertise will augment your capital efficiency by sustaining the useful life of hardware, software and applications.

Through collaboration between local plant staff and the Emerson service team during a Scheduled System Maintenance job, the plant staff can extend their knowledge to increase responsiveness and productivity.

**Expert perform service execution:** Access to Emerson site services specialists with deep knowledge of past proven solutions can be a major time saver in finding a problem solution, and this could help reduce the risk of an inefficient or unreliable solution.

## Service Description

Emerson Process Management will initiate the scheduling of planned maintenance visits with your plant's designated contact person. Emerson services specialists will work with you in advance to align service visits with planned outages and to define the duration of service visits, specific services to be performed, and equipment to be serviced prior to the service visit.

Scheduled System Maintenance visits are typically purchased in a bank of hours to be used during standard business hours.

In general, Emerson service specialists will perform maintenance tasks during the visit focused on six core categories related to the AMS Online Machinery Prediction System:

1. **Customer Site Overview:** Emerson reviews the scope of work and the spare part situation, discusses customer concerns to find solutions, talks about the findings and results with the customer, and suggest activities for future visits.
2. **Software Maintenance:** Emerson performs activities related with the overall system integrity, including a review of applicable Knowledge Base Articles, and Microsoft and Emerson patches, hotfixes and backups.
3. **Database Review:** Emerson verifies the data collection, fault frequencies and alarm limits, and reviews whether additional data sets and alarms are needed. In addition to suggesting additional service, transient functionality is checked, if present.
4. **Sensor Validation Check:** Maintenance activities regarding all connected sensors, visual checks, proper termination, and proper sensor functionality are performed according to the measurement type. Different sensors require different validation checks (such as vibration, speed, etc.).
5. **Cabinet Integrity:** Maintenance tasks related to internal cabinet integrity, visual checks, power quality checks, proper grounding, and cabinet ventilation/heating are performed.
6. **Network Connectivity:** A physical inspection of cabling connectors and cabling integrity (undamaged/ unstressed) will be conducted and checked for communication.

During each service visit, specialists will log results of all sensor tests, findings and observations, and generate a standardized report. The report summarizes the findings and actions taken during the execution of the Scheduled System Maintenance service. The report includes any other action plan recommendations identified during the visit to improve lifecycle, support and maintenance of the prediction system.

During a closing meeting, preventive and corrective actions will be planned and implemented, based on the findings and with agreement and close coordination of authorized plant personal.

## Service Availability

Scheduled System Maintenance is a Lifecycle Services offering for Emerson's Online Machinery Prediction Systems. The Lifecycle Services portfolio consists of service modules, each designed to address specific support requirements. These modules can be combined to customize a support program for your plant that is tailored to fit just right, meeting your support needs while providing value and peace of mind.

## Ordering Information

Description	Model Number
Scheduled System Maintenance for AMS Online Machinery Prediction Systems	(Please consult your local Emerson Process Management office for availability)

**Emerson**  
**Reliability Solutions**  
835 Innovation Drive  
Knoxville, TN 37932 USA  
☎ +1 865 675 2400

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