Modernization of Protection Systems

API 670 Peace of Mind with Modern, Proven Technology

Why take the risk?
Upgrading through the existing supplier is expensive, time-consuming, and the upgrades don’t offer the additional technology for improved productivity.

Modern Protection Advantages
Plants looking for the advantages of a modern protection system are turning to Emerson’s AMS 6500 ATG system – an API 670-compliant protection system with embedded, field-proven prediction technology. With the addition of prediction, operators are able to identify developing faults and analyze conditions during transient stages – both the startup and shutdown of turbo machinery when equipment is most likely to fail.

The AMS 6500 ATG features the hazardous area approvals required for modern plant processes. In addition, the system is supported by the same highly regarded lifecycle promise as other Emerson technology solutions. With the AMS 6500 ATG, your system can remain current in the many years to come.

For almost 60 years, industry has turned to protection systems to prevent or minimize major damage to critical production assets. These basic protection systems have been successful at reducing catastrophic failures and improving safety in the plant, but they are essentially blind to the avoidable causes that triggered the shutdown. Operators need visibility to:

- Historical information
- Long-term reliability of the asset
- Critical data used to determine the root cause of the problem

Without this, the reason for the shutdown remains a mystery and a continued threat to production and revenue goals.

Unfortunately, many plants today continue to use obsolete protection-only systems, even though spare parts are unavailable for these 30+ year old systems, and integration of prediction data is simply impossible.

Emerson has delivered prediction technologies to customers since 1985. With 25+ years of experience in the design and installation of protection systems, Emerson is able to offer a modern alternative to protecting your critical assets.
SAFE AND COMPLIANT – The AMS 6500 ATG is API 670 compliant and meets various safety certification required for use in hazardous environments: CSA Class 1 Div 2, IECex Zone 2, ATEX, and DNV GL certifications.

PREDICTION – Know the health of the asset using the powerful embedded prediction capabilities included in all of Emerson’s vibration analysis solutions, including PeakVue technology for the earliest indication of failure.

FLEXIBILITY – Stay flexible and lower the total cost of ownership with universal monitor and process cards featuring user-configurable inputs, allowing for I/O changes in the field and requiring fewer spare cards to accommodate a wide range of measurement types. In addition, the A6500-UM cards is designed to work with your existing sensors, eliminating the cost and labor of installing new sensors during the system upgrade.

ACCESSIBILITY – Stay in touch with your assets health from anywhere with the latest modern technology you use in daily life. The AMS 6500 ATG easily connects to existing DCS/PLC, Historian, or HMI systems via OPC UA and Modbus TCP and RTU. Information is accessible via the Machine Studio software or the ATG View mobile device application. Both applications are included as part of the system.

EASY TO USE – Machine Studio saves time with easy, flexible configuration using an intuitive graphical user interface. Templates are stored for repeatable configuration. Reporting capabilities such as documented system configuration and configuration change management provide additional savings by automating the documentation process.

When you are ready for more than the real-time analytical tools have to offer, graduate to AMS Machinery Manager for the most sophisticated trending and diagnostic capabilities.

Modernize your protection to a longer lifecycle, not another 30 year old system! Contact your local Emerson representative to schedule an onsite installation analysis on your existing system.

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