AMS™ Suite: Intelligent Device Manager

AMS DEVICE MANAGER INTERFACE OPTIONS

AMS Device Manager can be used online or offline. It provides real-time access to intelligent device diagnostics and alerts, so you always know how devices are performing and have valuable asset health information. Predictive information will alert you when a device is likely to fail, so you can replace it at a convenient time, before experiencing a costly unscheduled shutdown.

With online AMS Device Manager, you see alerts for any device not performing as it should. For example, if a transmitter's output suddenly falls outside its acceptable range or sensor fails, an alert is triggered immediately. As a result, the device can be re-ranged or replaced in order to maintain, or even improve performance. Likewise, if a valve is exceeding its cycle limit, you are alerted so that the valve can be adjusted. You achieve better process consistency with properly performing field devices.

AMS Device Manager also provides a database to store device configuration information. Taking full advantage of all the AMS Device Manager options results in online access to your instrumentation process information, diagnostic status information, and automatic documentation of all instrument maintenance information.

AMS Device Manager allows you to connect to devices:

- online via Interface Options with DeltaV™, Ovation®, RS3, or PROVOX.
- online through the Rosemount 3420 Fieldbus Interface Module and system interface.
- wirelessly through the 1420 Wireless Gateway.
- online through HART multiplexers and the system interface.
- online via the HART over Profibus interface.
- online via the ROC interface.
- offline using a HART Modem to connect to a single device at a time.

Interface Option: Emerson System Interfaces

With online connectivity, you truly get the full power of intelligent devices with AMS Device Manager. You can view the device's process variables, continually monitor the device status, detect alarms, and configure any open protocol device from an AMS Device Manager workstation connected to your Emerson Host System Interface, including DeltaV, Ovation, RS3, and PROVOX. These capabilities are also available using a HART multiplexer, HART over Profibus network, or the interface to the ROC.

The AMS Device Manager database maintains a historical record for each connected device through a system interface. In the plant, operators can view process control information in the control room while maintenance technicians can view asset management information from the maintenance shop or other plant locations.

Interface Option: Rosemount 3420

It is now possible to realize the benefits of employing FOUNDATION fieldbus in your plant or mill even if your current control system does not support fieldbus. By using the high-speed ethernet (HSE) interface to AMS Device Manager with the Rosemount 3420 Fieldbus Interface Module, you can configure and diagnose fieldbus devices along with other instrument and valve assets from a single application. Enjoy the benefits of fieldbus, including reduced installation and operating costs, fieldbus networking, access to advanced diagnostics for improved asset management and control-in-the-field capabilities for improved performance.

In addition, the powerful PlantWeb Alert capabilities employed in Emerson fieldbus devices are now available to users of AMS Device Manager. By notifying plant personnel of problems with critical plant assets, costly downtime can be prevented.

Interface Option: Wireless

The AMS Device Manager Wireless Interface gives you easy access to your wireless HART® devices via the 1420 Wireless Gateway. With online AMS Device Manager, you can quickly check the health of your connected wireless devices, as well as configure, calibrate, and document device tasks. With the Wireless Interface, you receive a cost-effective solution for remote configuration and diagnostics without the additional costs of multiplexer installation and wiring.

Interface Option: HART Multiplexer

The AMS Device Manager HART Multiplexer Interface allows AMS Device Manager to communicate with HART devices connected to any DCS or PLC, by means of HART multiplexers. The online connectivity allows for live configuration of devices, monitoring of device status, and detection of alarms.

The multiplexer acts as a gateway device, routing communications between the AMS Device Manager and the HART field devices. It interrogates each HART device, retrieves device information, and stores it in an internal database. The multiplexer also acts as a message coordinator for communication between the PC and HART devices.

Although the HART Multiplexer Interface allows you to work with devices connected to any DCS or PLC, it is not a means for controlling devices.

Interface Option: Single Point Solution

HART Modem

When working offline, you have access to the historical information in the plant database. Using a HART modem, you can connect to a single device to configure or troubleshoot on the bench or at a termination panel. Or, if a device is brought into your maintenance area, you can easily manage calibration activities.

A HART modem allows you to communicate with HART instruments using a PC, the computer's serial, USB or PCMCIA port, and AMS Device Manager. The HART modem requires no external power supply.

AMS Suite: Intelligent Device Manager powers PlantWeb through predictive and proactive maintenance of intelligent field devices to improve availability and performance.

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