

Device Dashboards Improve Technician Productivity

Business Benefits

- Lower labor costs while reducing instrument related work-order backlog
- Faster completion of improvement projects
- Reduce or eliminate production delays caused by instruments
- Reduce maintenance costs by reducing the need for device specific specialists

Applications

Operating Plants

Customer Profile and Need

- Lead Instrument Engineer
- Reliability Engineer
- Maintenance Manager
- Project Engineer
- Control Engineer

Improve instrument technician productivity to accommodate higher workloads and reduced staffing.

Challenge

Project engineers, control engineers, reliability engineers, operators, and maintenance personnel all rely on instrumentation specialists to select, configure, commission, maintain, troubleshoot, and repair the field devices that run the plant. Instrumentation specialists are also responsible for implementing corporate standards, creating work procedures, and working with field device vendors.

Typically facilities are using increasing numbers of devices and different device types. Meanwhile there are fewer people to get and keep them working. The experienced people who understand these devices are leaving the workforce. There are fewer replacements available, and those that are have less experience. Personnel are so busy dealing with the work-order backlog that improvement projects are being delayed.

If the right instrument choices are not made and everything kept running right, every stakeholder who depends on instrument performance in order to meet their goals can suffer. The net result is that improvement projects get



Device Dashboards from Emerson can reduce the number of work requests by verifying device operating status, and reduce labor on device related tasks 50% or more.

delayed, and the backlog of open work-orders keeps growing. This can lead to production slowdowns, unscheduled shutdowns, and increased labor costs due to more overtime and shift work.

Solution

Device Dashboards from Emerson improve human productivity by eliminating unnecessary work, reducing the time required to accomplish typical device related tasks. The most common device tasks can be accomplished with a single keystroke. Activities such as configuration and calibration are automated, so they can be done in less time.

Troubleshooting and repair are guided, so it takes less time to determine the cause of a problem and less time to conduct repairs in the field. Device Dashboards have consistent layout and function across a broad range of devices, communications protocols, and enabling technologies. This means most device interactions are familiar, even if the person doing the work has never interacted with that device type before.

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Solution (cont.)

The net result is a 50 to 80% reduction in the time needed to perform typical field device related tasks such as status checks, configuration and calibration, and troubleshooting and repair. This can lead to faster problem resolution with a corresponding reduction in the work-order backlog, and faster implementation of improvement projects.

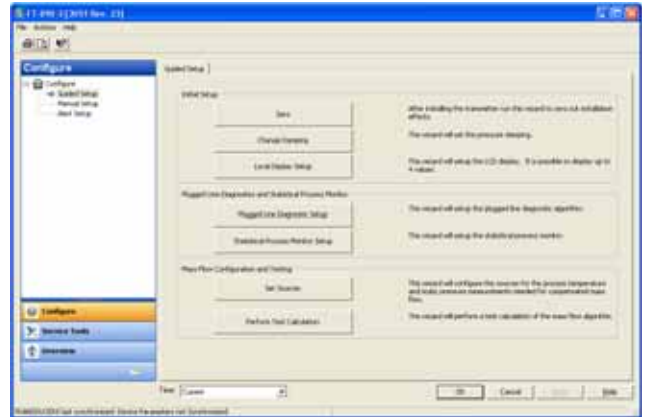


FIGURE 1. Configuration and calibration wizards guide personnel step by step through the work process.



FIGURE 2. Graphically based troubleshooting and repair reduce time needed to resolve issues and reduce errors and rework.

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