

## Product Information Note

### DynAMo® Operations Logbook



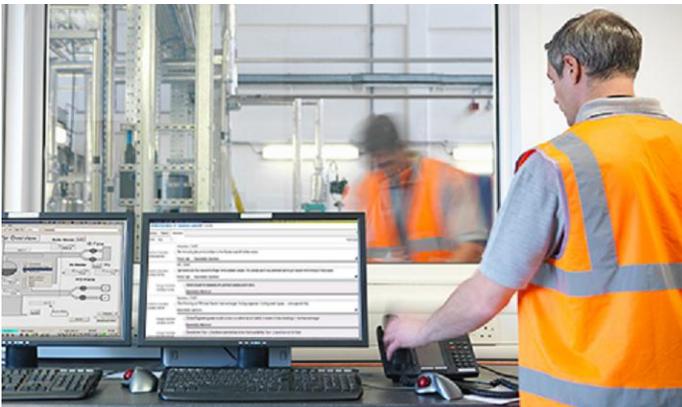
## Improve communications to run your plant more effectively

Consolidate information from different sources to provide a consistent and up-to-date view of key process data, problems, operating plans and the shift log.

Honeywell's DynAMo® Operations Logbook helps personnel across the plant work together to achieve greater operational reliability. The electronic log consolidates information from different sources to provide a consistent and up-to-date view of key process data, problems, operating plans and the shift log.

The benefits of this solution can be significant:

- Fewer upsets and incidents
- Lower operating costs
- Increased asset reliability
- Better safety
- Improved environmental compliance
- Increased plant production



Electronic Logbooks improve operations communication

### Shift Communication Problem

Communication failures or misunderstanding at shift handover are to blame for many industrial accidents. This is well documented in reports from high-profile incident investigations. The ASM® Consortium research on effective shift handover further suggests that improvements in this important

communication work process will improve operations and minimize errors that could result in accidents.

The ASM Consortium research has identified the need for a more comprehensive approach to shift handover - especially for plants with complex operations and processes. Paper shift logs are limited in their usefulness as they are not easily available to all users. Whiteboards, post-it notes and change sheets are common ways of communicating and coordinating across shifts. Like the paper shift log, these mechanisms suffer from a lack of structure, permanence and availability for analysis by many users.

Many sites have tried to solve the "paper problem" by creating data logging tools using spreadsheets, e-mail or custom databases. These approaches can help but are limited for a variety of reasons and often fall into disrepair when technology challenges become insurmountable. As a result, the operations team falls back to using the familiar paper log. While this can aid shift handover, it often cannot include the breadth of information required and cannot provide the wealth of information the rest of the site needs to solve problems, improve operations and plan.

### Regulatory Needs

Many industries have regulatory requirements related to logging information during a shift and assuring the proper handover of that information and responsibility to an incoming operator. Thus, an electronic logbook solution must support the necessary logging, capture the handover of responsibility and archive this information as evidence to regulatory authorities.

### Automated & Standardized Solution

DynAMo Operations Logbook captures and aggregates key data from across the plant and makes it available through a Web-based user interface. It is designed to capture notes and

comments from the operations team during the shift; compile a configurable shift summary report; enable efficient searching for valuable information recorded in a previous shift; and enable an effective shift handover work processes to reduce errors, avoid incidents and improve operational effectiveness.

This powerful and versatile software can be easily integrated with related applications in Honeywell's DynAMo software suites. DynAMo Metric & Reporting collects and stores alarm and event data from multiple data sources and automatically generates reports that give an accurate snapshot of a site's current alarm system performance. Collected information, such as standing alarms, shelved alarms, chattering alarms, etc. should be reviewed at shift handover. DynAMo Operations Monitoring is designed to monitor the limits of your process, primarily those limits that define your best operating zone or envelope so that any deviations can be addressed by operations and analyzed for improvements. When alarm and limit information is integrated with DynAMo Operations Logbook, communication is further enhanced. Situational awareness is improved for the incoming operator during shift handover and users such as engineers that review shift summary reports have a better sense for the operating conditions during the shift. The result is an easily archived report in PDF format with actionable information, not just a piece of paper that is filed never to see the light of day again.

Provided on a new, streamlined platform employing versatile Microsoft SQL Server technology, DynAMo Operations Logbook is a control system-independent software application, which builds on Honeywell's experience in the operations management arena.

### Browser-based User Interface

Users of DynAMo Operations Logbook simply use a browser to access and enter information related to various plant operations. There is no software for your IT organization to install and maintain for each user. Built using industry standard html5, the interface can also be accessed from mobile devices such as an Apple® iPad®. Information from a wide range of data sources, including plant databases, process historians, maintenance management systems and MES/ERP systems, is automatically pulled into a configurable shift summary report to give operators, supervisors and engineers a consistent, up-to-date view of key operating data, problems, operating plans, the shift log and more. The software can also be integrated with DynAMo M&R or third party alarm management systems to provide an overview of relevant alarm activity for an effective shift handover.

The screenshot displays the 'Operator Shift Report' for '10-CDU' in progress. It shows shift details for Day 1 (11/3/2014 6:00:00 AM to 11/3/2014 6:00:00 PM) and was created by Elizabeth Swann on 11/3/2014 at 4:43 PM. The interface is divided into several sections:

- Critical Asset Status:** A table listing equipment like Furnace DX303 (Maintenance), Desalter V1005 (Normal), Feed Pump P1002 (Normal), and Reflux Pump P1007 (Normal).
- Operating Instructions:** No new instructions.
- Key Process Variables:** A table with columns for Target, Limit, Asset, StartTime, Actual, Reason, and Comment. It lists variables like CDU Effective Act/Tag, CDU UpHR, and FRODA %Oxygen.
- Operations Parameters:** A table with columns for Tag Label, Value, TAG, TAGDESC, ALARM, and PRIORITY. It lists parameters like Crude Feed - K8FD, Crude API, and CDU Pressure - P50.

DynAMo Operations Logbook provides a common, Web-based window to access and enter information related to various plant operations.

Operations personnel will find the DynAMo Operations Logbook user interface effective in a number of ways:

- Intuitive – no need of training/referring to manuals to use the core features of the interface
- Minimal navigation – easy to navigate with a limited number of clicks to find the detail of interest
- Familiar Interface Style – use of family web and windows presentation styles reduces the user's learning curve.

### Meet Operational Demands

Improving operational reliability requires a team effort by operators, engineers and various specialists in a process plant. DynAMo Operations Logbook will provide the information necessary for the team to help ensure the facility is always operated within the right limits and each new team of operators fully understands what is happening and what activities remain to be done.

All users can easily review the comments and observations that were recorded for a time period such as today or during the last shift. They can review the detail specific to topics such as environmental issues for a particular unit. Of course, one of the most important aspects of the logbook is to make sure the incoming team knows what they need to operate safely and effectively during the next shift.

### Delivering Benefits

DynAMo Operations Logbook can substantially eliminate the deficiencies of current electronic logbooks and improve shift handover effectiveness. Significant economic benefits in operational efficiency and risk reduction are also possible. The

potential advantages available come from a variety of sources, including:

- Reduced number and severity of incidents
- Lower operating and maintenance costs through increased asset reliability
- Better safety and environmental compliance
- Increased production through learning from and avoiding incidents
- Automatic documentation of the plant state for shift handover
- Reduced time for analyzing disturbances
- Easier evaluation of messages for diagnosis and optimization purposes
- Simple collection and maintenance of plant know-how
- Better identification of weak points and opportunities for optimization

Operators, even the most experienced, can make mistakes if the information they have is incomplete or difficult to understand. A well-designed electronic logbook minimizes the mistakes by enabling a structured shift logging and handover program. Operators record what they do, and everyone can see what really happened in the plant.

### Satisfy IT Requirements

IT professionals will appreciate how DynAMo Operations Logbook can work as part of an integrated plant information system. It will allow them to:

- Minimize administration costs with a browser-based user interface that requires no software to be installed for the end user
- Reduce costs by taking advantage of built-in integration with other related applications such as DynAMo Metrics

### For More Information

Learn more about how Honeywell's DynAMo Operations Logbook can help improve your operational effectiveness, visit our website [www.honeywellprocess.com/software](http://www.honeywellprocess.com/software) or contact your Honeywell account manager.

### Honeywell Process Solutions

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& Reporting and DynAMo Operation Monitoring.

- Access data from any relevant database, including plant historians, for automated inclusion in the shift summary reports.
- Implement a robust, role-based security model that supports Windows-integrated security.
- Run on Microsoft Windows™ 2008 Server or 2012 Server with a SQL Server 2008 R2 or 2012 database.
- Get support from Honeywell's global support organization and application experts, including telephone support, problem resolution, and monthly newsletters.
- Rely on Honeywell to regularly test and qualify Microsoft security patches and hotfixes, as well as patches from other vendors.
- Take advantage of regular, no-cost upgrades that provide new capabilities and support the latest technologies such as new versions of Windows.

### Support Services

DynAMo Operations Logbook comes with worldwide, premium support services through our Benefits Guardianship Program (BGP). Helping improve and extend the benefits applications deliver, BGP safeguards your software investment.