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СИСТЕМЫ УПРАВЛЕНИЯ

Руководство пользователя

на Experion Orion



Product Information Note

Experion Orion Console



The Experion® Orion Console increases operator effectiveness over a greater scope of responsibility by providing faster response times, reducing fatigue, and increasing situational awareness - turning the process operator into a profit operator.

Experion Orion Console Benefits

- Faster and more effective display navigation and operation reduces process trips and incidents
- Improved situational awareness allows process operators to manage a greater scope of responsibility
- Minimum cost of ownership for both initial installation and ongoing maintenance with a fully tested and supported Honeywell solution
- More engaged and less fatigued operators with a console that can be operated from both sitting and standing positions compliant with the latest ergonomic standards
- Modern light weight stream-lined design to visually enhance the control room

All this in addition to the benefits from Experion's existing state of the art human machine interface.

Single Visual Workspace

The Experion Orion Console supports large 50"/127cm 4K ultra high definition thin bezel screens. This provides the process operator with a large uninterrupted *Single Visual Workspace*. This large workspace provides the flexibility to optimize the layout of information without the restrictions inherent with multiple small separate screens, to best meet the process operator's needs for improved situational awareness. An example is an overview of all the process units permanently displayed across the top of the workspace ensuring the operator's awareness of overall plant performance is maintained when dealing with abnormal situations.



Experion Orion Console



Experion Orion Console with Optional Auxiliary Equipment Panel

The Single Visual Workspace can simultaneously show information from digital video, alarm management, advanced process control and other applications along with the displays used to operate the plant or process. A single operator action can invoke a complete set of process displays and related information from chosen applications. Display arrangements can also be pre-configured for different modes of operation such as equipment start-ups, managing different feed stocks and product grade changes.

Together these improvements increase the process operators situational awareness allowing them to identify potential problems earlier, and more effectively deal with them - supporting an increased scope of control.

Advanced Operator Touchpanel

The primary tool for the operator to navigate and make process changes is the *Advanced Operator Touchpanel*. This multi-touch enabled screen and innovative Experion software is used along with a standard keyboard and mouse. Content on the Advanced Operator Touchpanel can be customized for the operator's specific needs.

Use of the *Advanced Operator Touchpanel* is direct, intuitive and faster than a standard keyboard and mouse. This is particularly

beneficial in situations such as unexpected equipment failure enabling the operator has to quickly take action to avoid wider negative effects such as process trips.

Auxiliary Equipment Panel

The optional *Auxiliary Equipment Panel* is used for hard wired switches, indicators and other panel mount equipment. Screens can be mounted above the panel. Computers, network switches and other equipment can be installed in the enclosure below the work surface with cable access to the Experion Orion Consoles.

Innovative Human Factors-based Design

The Experion Orion Console design is based on direct consideration of the human factors in control room operations. The console complies with the latest ergonomic guidelines for operating position, screen location and workspace height. The look and feel is light weight, crafted and contemporary to optimize the control room working environment. Personal USB power is provided in a hidden panel within the work surface for the operator's use.

Installation and maintenance of cables and other equipment is made easy with removable panels allowing direct access.

Easy to follow video-based installation instructions are provided rather than complex written manuals.



Standing Operating Position

Operate from Sitting and Standing Positions

To address operator fatigue and the related reduction in effectiveness, especially during long night shifts, the console has both sitting and standing operating positions. Actuators smoothly and quietly raise or lower the work surface and screens to a pre-configured or a manually selected height. In addition to reducing fatigue, operating from a standing position also mitigates potential health and safety concerns from extended periods of time spent sitting.

Alarm Light Panel

An alarm light panel mounted on top of the console changes color using subtle fixed illumination to provide an indication of the current alarm state of the console. This alarm light panel can be viewed throughout the control room. This visual alarm indication can supplement or replace audible annunciation.

Open Future Proof Design

The Experion Orion Console has an open design to accommodate future equipment technology changes with minimal impact:

- Screens are connected via fully adjustable mounts that easily adapted to different sizes and positions.

- The console is optimized for remote rack mount or virtualized computers connected using thin clients while also supporting local computers in the auxiliary equipment panel.

Fully Supported Honeywell Solution

The Experion Orion Console including all equipment and software is a fully tested and supported Honeywell solution. This ensures:

- Long term availability of consoles and all spare parts
- Technology churn is managed so before equipment reaches it's end of life a replacement will be qualified.

This significantly reduces long term cost and risk for the end-user.

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