

System 800xA Extended Operator Workplace EOW-x – superior operator performance in both routine operations and critical situations



The integrated functions and ergonomics of System 800xA EOW-x workplace are unrivalled today. Every EOW-x operator enjoys an overview that is fully adapted to his or her individual needs. Large screens and monitors, desks, lighting, speakers and cameras are all integrated into a total control room environment that combines full comfort and ergonomics with access to all system tools needed to supervise processes.

This commitment to human factors like good health and job satisfaction boosts operational excellence and attracts the caliber of operator needed to run today's multi-layered manufacturing plants.

Fatigue and distraction have no place in a System 800xA EOW-x control room. Effective and harmonious links to I/O devices connect users with the control system, process and plant as well as the business organization. Operators stay alert, engaged and proactive at all times, in full control of routine tasks and always ready to tackle the unexpected.

A perfect process overview for everyone

Superior overview plus full integration

The first thing that strikes you is the fantastic overview that System 800xA EOW-x provides. For example, its large, close-view LCD display screens and individual monitors are all fully interactive. Compared to the wall panel solutions found in control rooms where human factors are not properly understood, the viewing ergonomics of EOW-x are outstanding. Instead of twisting their necks to view a distant panel, operators enjoy a superior close overview plus full integration at the same time, which promotes fast and correct decision making in critical situations. Large close-up overviews also prove invaluable when several operators need to see and discuss issues together.

System 800xA EOW-x is available in two versions; EOW-x2 with two 52-inch LCD screens plus four 23-inch monitors and EOW-x3 with three 52-inch LCD screens plus six 23-inch monitors. All deliver full HD in true 16:9 format and all are adapted for 24/7 operation.

Pumps that look like pumps

Workplace templates supplied with System 800xA ensure accurate and correct visualization of process graphics in wide-screen format. Simply choose which template to use based on the resolution and the number of screens/clients you require. This manner of presentation contrasts strongly to that used by other suppliers who often build up process images in one resolution and then show them in another, resulting in pumps not being round, for example.

Thorough testing shows that the LCD panels used in EOW-x are fully independent of background lighting or other illumination. Furthermore, an advanced cooling system keeps the panels at a low temperature. They are also highly energy efficient.

ABB System 800xA EOW-x is a total operator workplace solution. Its full focus on human factors keeps process operators alert and proactive at all times.



Improved operator desk ergonomics

Control room tailored to individual operator needs

The superior ergonomics of the EOW-x console desk are exactly what is needed in a modern operative center or control room. Patented motorized movement provides multi-functional adjustment so that each individual can find a position that best suits them. For example, the whole desk can be adjusted in height from 65 cm to 130 cm. This allows simple switching between sitting and standing positions, an alternation known to keep operators aware and alert.

Additional features include simultaneous motorized adjustment of both viewing inclination and depth of all personal screens. All screens can be angled anywhere between plus 5 degrees to minus 45 degrees with a single command, and be moved up to 20 cm in depth. Individually motorized height adjustment of the large displays and personal screens is also provided. Operators (even those with widely differing heights and focus of vision) can always find the optimal viewing position.

The whole viewing system can also be configured to adopt an optimal predetermined position in the event of a certain alarm



type, for example. Operators can thus quickly move to their allocated workplace and devote their full attention to immediately resolving the situation without having to first adjust tables, displays and monitors.

Integrated keyboard

For faster and more intuitive operation, an integrated functional keyboard is available. This keyboard can control up to six 800xA clients.

Unsurpassed communication possibilities

To improve communication between internal and external operators, EOW-x is equipped with an extraordinary speaker system plus a standard built-in camera prepared for video communication.

Its directed sound shower system means fewer disturbances for other operators in the same room. Audio feed comes through a speaker designed to steer that sound toward the correct individual operator while minimizing 'leakage' to those on either side. For example, when an operator in the control room needs to talk with a colleague in the plant, he can speak into a headset and hear the response via the directed system.

To further improve the two-way flow of information, just imagine the scenario of linking the standard EOW-x camera to an optional helmet-mounted device. You can then see exactly what your colleague in the plant sees, and in real time. If needed, this video image could be fed to a large LCD display and the sound piped through the control room speakers to involve additional operators in the situation.

Additional home comforts of real value

Modern, sound-absorbing material plus individually-adjustable, high-frequency lighting also increase operator comfort and efficiency.

Significantly, today's EOW-x is already set-up for coming micro-ventilation technology solutions. Micro-ventilation regulates the temperature surrounding individual operators to suit their specific preferences. And just as screen-viewing angles and depths can be moved to predefined positions to help improve handling alarm events, control room air temperature can also be cooled and more oxygen supplied to promote clear thinking under similar stressful situations.

Easy set-up

800xA EOW-x is easy to set up and start using. The object-orientated architecture of System 800xA provides all the functions and information operators' need. The required panels, graphic cards and cables are all included in the EOW-x package. All components are tested and verified.

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