InformIT System 800xA Minerals Library

Suite of Control Objects for Minerals Processing

What is inside the System 800xA Minerals Library

There are numerous control object categories comprising the Minerals Library:
- Basic objects (AI, DI, AO, DO)
- Group objects (sequential group control, cyclic group control, pre-selections, start warning)
- Consumer objects (uni- and bi-directional motor control, variable speed drive control, damper/actuator control, valve control)
- Intelligent drive control (incl. serial interfaces)
- Loop objects (PID control)
- Power monitoring objects (intelligent relays)
- Dosing objects (weigh feeder control)
- Report objects (counters)
- Communication objects (for controller to controller communication)

What is System 800xA Minerals Library

System 800xA Minerals Library is a suite of re-usable control objects for control applications that have been designed using ABB’s vast experience of three decades in the minerals processing industry and is fully integrated into the Industrial IT System 800xA.

Embracing the principles of open, real-time networking, System 800xA with the Minerals Library provides a modern scalable solution that spans and integrates your loop, unit, area, operation, and multi operation controls. At the core of the System 800xA is its industry unique integrated object oriented system environment for operations, control and engineering.

System 800xA with Minerals Library contains pre-engineered objects containing control logic, human-machine-interface and communication for application creation in drag-and-drop manner. It provides a complete set of operator functions, including realistic process displays with graphic elements and faceplates, superior trendig capabilities, intelligent alarm and event handling with remote messaging, reporting, as well as drawings such as wiring diagrams.
Benefits from System 800xA Minerals Library

Economic gain
• Enables effective and smooth plant operation and real-time analysis of events through proven solutions
• Maximizes performance of your assets through reduced time to repair through optimized work processes and reduction of unnecessary maintenance and down-time
• Lowers engineering, commissioning and administration costs

Compliance
• Compliant with the IEC 61131-3 standard
• Provides a platform to enable the enterprise to reach their environmental, production and quality goals and standards
• Delivers reliable, consistent and complete information geared for the minerals processing industry through industry specific graphic displays

Top quality at peak rates
• Efficient real-time operation and control providing the foundation for continuous improvement through easy navigation and alarm/event management
• Consistently delivering information to trained personnel to allow informed decision making for maximizing the production rate

Gear-up with experience
• Take advantage of ABB vast minerals processing experience in providing enhanced industry specific solutions for over 30 years
• Predefined, rich in process knowledge solutions provide predictable results, due to adoption of proven industry «best practices»

Engineering and Commissioning Efficiency
• Fully integrated engineering environment for development, re-use of intellectual assets and streamlined engineering workflow throughout the lifecycle
• Shorter commissioning times across numerous operations through reduced testing and validation with scalable, reusable solutions and best practices
• Eliminates the need for manual data input and validation by automated incorporation of customer and I/O data
• Provides modularization and system wide, single point change management with revision control

Higher employee productivity
• Contextual navigation based on the users job function and the task at hand allow real-time decision making and action
• Fast and informed decision support through enhanced aspect integration and object orientation
• Fast, reliable and efficient operation due to predefined and pretested functions, optimized system resources and excellent library software performance