ProBase
System 800xA libraries for food and beverage operations

Industry libraries that boost efficiency and flexibility

Complete industry solutions

ProBase is a complete object-oriented library for ABB's Automation systems based on AC 800M controllers for the food and beverage industry. It shows the most benefits using it for System 800xA, but can be used with Compact Control Builder as well. Chosen by leading dairy and beverage producers, ProBase features proven and efficient software modules and process objects built on longterm leadership in the food and beverage industry worldwide.

System 800xA is the automation platform of choice of customers in demanding industries like pharmaceuticals, chemicals, food, oil and gas, pulp and paper, metals, mining, and electric power.

Probase helps you

– Providing an easy to use operator interface to the user
– Routing product through your production with the help of standardized functions as "Route", "Tank", "CIP"
– Achieving compliance with governmental regulations and guidelines
– Assuring food safety and quality
– Reducing Cleaning Cycle Times providing a complete and recipe-based CIP station solution
– Supporting Track and Trace functionality (requires additional package)
– Efficiently engineer your plant by its outstanding reuse capabilities
– Growing from small to large, being very scalable

Consistent quality and rapid throughput

The combination of the System 800xA platform and ProBase industry library provides food and beverage producers with a unique capability to boost efficiency and flexibility and secure product safety and quality. ProBase equips customers with the tools to achieve compliancy with numerous government regulations and guidelines, like 21 CFR Part 11. It gives operators, engineers and maintenance staff real-time access to process data, asset information and other essential input. The result: consistent product quality, rapid product throughput, greater flexibility and fast response to market demands.

Speedy and efficient engineering

ProBase contains a complete and powerful library of ready-made software modules and process objects specifically designed for the food and beverage industry. They include components, devices and process equipment modules that can be used as they are or modified and configured to meet a customer-specific solution.

Advanced product routing modules simplify engineering and help control each stage of the product flow from intake to finished product. The objects are well proven, quality assured and offer unique flexibility. ProBase's reuse capabilities ensure maximum engineering performance.

Intuitive operator interface

ProBase provides a streamlined environment for reliable control via a dynamic, easy-to-use operator interface that gives operators access to the whole plant and different layers of information. Product routing modules provide fast and easy access to the process as well as supervisory control of multiple and complex product transfers. All faceplates include interlock indications and online help texts that provide the operator with the relevant information for rapid response and correct decision making.

Recipe-based cleaning in place (CIP)

To reduce cleaning cycle times and optimize the use of detergent and water, ProBase features a complete CIP station solution.

A comprehensive CIP recipe editor enables individual settings for each CIP object to eliminate wasteful consumption of detergent, water and energy. Recipe-based CIP secures product safety and reduces environmental impact. On-line tools and graphical representation of circuit tuning and optimization boost cleaning performance.
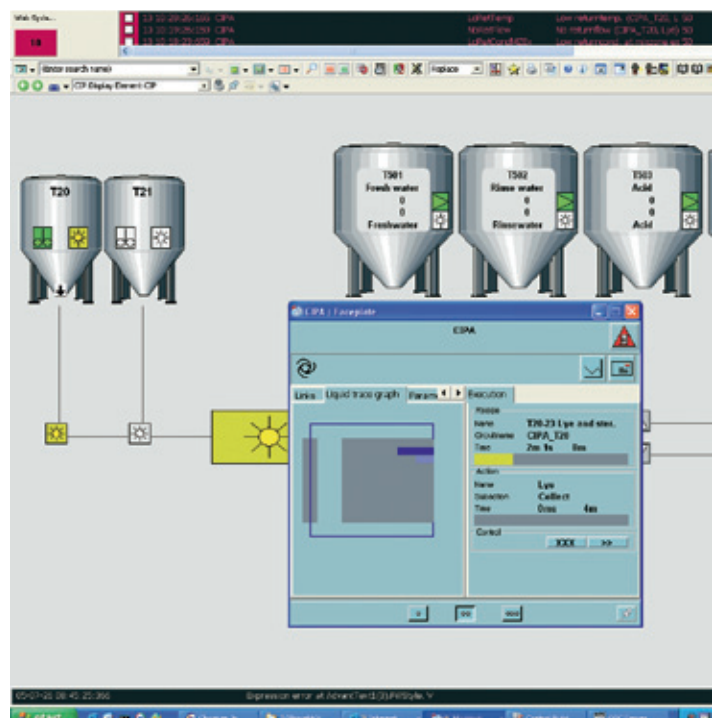
Track and trace

The ProBase control software provides data required to track all components and materials used throughout the entire production process. Data like product ID and volume, critical process parameters and product routing are recorded at each stage of production and help the plant comply with international standards like Regulation (EC) No 178/2002. This improves productivity and ensures consistent quality of the product flow throughout the plant.

Preventive plant maintenance

ProBase enables customers to implement preventive maintenance programs to ensure that production remains at consistently high levels. Motor run times and valve strokes are monitored and recorded, and alarm limits assigned to each item of process equipment.

ProBase is designed for optimal integration with System 800xA extended functionalities like manufacturing and batch management, device management and asset optimization. ProBase ensures that customers get the most value out of their existing plant assets.

ProBase

Evolution through enhancement

ProBase is a scaleable and modular industry library that enables customers to tailor the size and functionality of the solution according to their needs. Users can begin with a small library application or with a solution for just one part of the process and then expand the scope as requirements evolve.

System 800xA and ProBase are future-safe - customers can add new functionality or migrate to larger configurations without having to "rip and replace" their existing systems.

For more information about our Food & Beverage solution visit http://www.abb.com/food&beverage

ProBase benefits

– Easy to use and operate
– A complete industry library of ready-made objects for the food and beverage industry
– Assuring food safety and quality
– Scaleable to fit any needs
– Future-safe – can be upgraded or extended as needs evolve
– Efficiently engineer your plant by its outstanding reuse capabilities
– Recipe-based CIP editor for optimal use of detergents and excellent cleaning accuracy
– Real-time data acquisition for preventive maintenance and asset optimization

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