



Designed specifically for formula storage, campaign management, traceability, alarm tracking and system monitoring.

Production & Information Management

The NorthWind PlantLOGIX® platform integrates plant floor operations into other information systems. With these tools, maintenance personnel, production managers, and business executives can harvest and utilize information that already exists in the factory system, reducing cost and increasing production.

BatchLOGIX® formula management module has the scalability to accommodate systems of any size. Whether scaling recipes into a batch or metering ingredients into a continuous system, flexible recipe management software is the key to maximizing the performance of your plant and increasing product consistency.

The AlarmLOGIX® module is an event-driven data collection tool that provides maintenance and production managers greater capabilities to monitor the system for quality control and preventative maintenance. Time-based, operator functions, and setpoint driven events can trigger the collection of multiple data points in AlarmLOGIX. This data is stored into a SQL database and can be queried for further analysis.

The screenshot displays two main components of the NorthWind PlantLOGIX software interface. On the left is the 'Recipe Detail' window, which includes an 'Edit Recipe' form for 'KIBBLE ADULT DIET 1' and a table for 'Preconditioner Ingredients'. The table lists ingredients like 'ADULT', 'Liquid 1-4', 'Water', 'WSS Water', 'Steam', 'Meat', and 'Liquid 5' with their respective quantities and units. On the right is the 'Batch Ingredient Usage' report for Campaign ID 1523668651, Line Tower Mixing, Batch 1. This report lists various ingredients such as PULP, FISH MEAL, CAL CARB, FLAXSEED, PHOSPHATE, POULTRY MEAL 1, CORN MEAL, POULTRY 2, SALT, VITAMINS, WHEAT, WHEAT 2, YEAST, BREWERS YEAST, SOYBEAN, VITAMIN MIX 2, VITAMIN MIX 3, MINERALS, and REGRIND, along with their actual usage amounts.

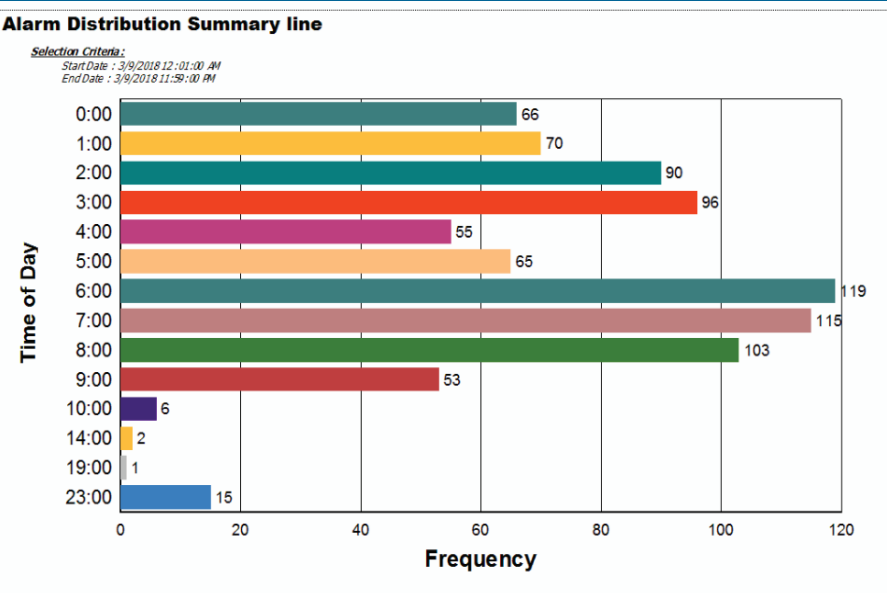
Formula Management - A formula consists of a list of ingredients, ingredient amounts and sequence for combining those ingredients, and the amount to be made (batch size). BatchLOGIX is a dynamic, robust program that manages the ingredients and equipment set points in both batch and continuous processes.

Campaign Management - Create a campaign schedule using different recipes from the campaign manager screen. Campaigns can be released upon startup or scheduled for future.

Lot Tracking - Trace ingredients through your entire manufacturing process with lot tracking, storage, and reporting capabilities. Lot numbers for liquid and dry ingredients can be traced through multiple systems from source to finished product.

Material Mapping - With BatchLOGIX, ingredient locations can be mapped without changes to the PLC program or the recipe. Material mapping also prevents delivering ingredients and product to the wrong location.

Alarm Tracking & System Monitoring



Alarm Notification

Automatic text and email alerts are sent to all personnel that need to know the first sign of trouble. Ensuring problems are taken care of quickly.

Records & Reporting

Not only does AlarmLOGIX improve alarm response time, it also tracks alarms that have occurred for later review. You can see how often an alarm has sounded and generate a detailed list of all the alarms that have been triggered to study trends.

Equipment Tracking

Regular maintenance is important to extend the life of your equipment. Following a maintenance schedule will help you accomplish this. AlarmLOGIX tracks machine cycles for you and sends alerts to maintenance staff when it is time to service each machine. This ensures you get the most out of your equipment and helps to minimize down time.

Print Report

Report: Alarm Distribution Time line

PLC: Ingear 192.168.1.200 - 0

- Devices
- Indicators
- Scales
- Feedpoint

Date Time

Initial Date
 Wednesday, August 15, 2012 12:01:00 A

End Date
 Wednesday, August 15, 2012 11:59:00 PM

Range
 Period of Day

- Devices 1 - Bag Dump Conveyor Blower
- Devices 2 - Bag Dump 1 Butterfly Valve
- Devices 3 - Bag Dump 2 Butterfly Valve
- Devices 4 - Bag Dump 1 Airlock
- Devices 5 - Bag Dump 1 Filter Timer
- Devices 6 - Bag Dump 1 Vent Fan
- Devices 7 - Bag Dump 2 Airlock
- Devices 8 - Bag Dump 2 Filter Timer
- Devices 9 - Bag Dump 2 Vent Fan
- Devices 10 - Minors Bin 1 Vent Open Solenoid
- Devices 11 - Minors Bin 1 Feeder Motor
- Devices 12 - Minors Bin 1 Feeder Slam Gate
- Devices 13 - Minors Bin 2 Vent Open Solenoid

PlantIQ™

PlantIQ is an AI platform that helps manufacturers reach and exceed their production goals. This scalable solution can be implemented on a single process area or encompass the entire business, connecting the plant floor to the rest of the business operations.



The AI Platform helping Manufacturers reach and exceed their production goals.

PlantIQ Agent

PlantIQ Agent is a digital expert powered by generative AI and manufacturing-specific LLMs, offering solutions and recommendations to help operators and support engineers solve problems.

Knowledge Base

The knowledge base compiles SOPs, manuals, training materials, transcriptions, process data, service tickets, and more. It continuously evolves through user interactions and feedback, improving the quality of answers over time.

Alarm Module

The Alarms module leverages generative AI to interpret PLC and SCADA alerts, offering focused insights into system faults. It accelerates resolution through historical analysis, process data, and service ticket context.



How Can AI Help Your Business?

PlantIQ is a buildable, customizable platform designed to fit your needs. Its modular design allows additional tools like intelligent scheduling, logistics management, and machine learning to be developed for and tailored to your operation.



Thank you for your interest in NorthWind. We are committed to helping our customers improve their process through automation & cutting-edge design. For more information, please call or visit us on the web at:

785.284.0080

www.northwindts.com