

PROJECT BRIEF

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Project Number: CPC060701

Customer: Collins Pine Company

Concept Systems' Contact: Alan Schoen

Project Name: RTAnalyst-Runtime Efficiency Monitor

Description: Original Equipment Manufacturer (OEM) equipment traditionally does not include downtime monitoring features and if they typically do, it is not integrate cleanly with the facility's corporate systems. As such, most facilities record equipment downtime manually, or not at all, which are very costly solutions. This was the problem Collins Pine Company was facing and the reason why they contacted Concept Systems looking for a way to more easily and reliably monitor machine downtime events and calculate the operating efficiency of their equipment.

The goal of the project was to provide an open architecture, stand alone downtime monitor that is simple to use and easy to integrate into existing equipment.

The result is RTAnalyst, Concept's new Runtime Efficiency Monitor.

RTAnalyst consists of a touchscreen panel PC mounted in a UL-508A 16" x 12" electrical enclosure. RTAnalyst works by monitoring a single input that serve as the downtime trigger. The trigger can be configured for either a steady or periodic single in order to accommodate different types of equipment. With this input, RTAnalyst determines total runtime verse downtime and calculates the equipment's operational efficiency. Each downtime events prompts an operator input in order to enter the downtime cause. All this data is stored in a database that can be accessed locally via the touchscreen or remotely via an ethernet connection, making it compatible with virtually all corporate systems.

RTAnalyst makes gathering downtime data easy and provides the information necessary to increase productivity and focus maintenance efforts. It comes totally assembled and integrates easily with any equipment.

Services Provided:

- Engineering
 - System Design
 - Industrial PC Programming
 - Software Update Management
- Documentation
 - User Manual
 - Electrical Schematics
- On-site Acceptance Testing
- On-site Training
- Electrical Enclosure Design
- Assembly

Technologies/Platforms Used:

- B & R Automation Power Panel
- Ethernet Communications
- Discrete I/O Interface
- Operator Interface Screens



Results:

- Valuable compilation of management and maintenance data
- Versatile stand alone system
- Easy to integrate with existing systems
- Simple to use