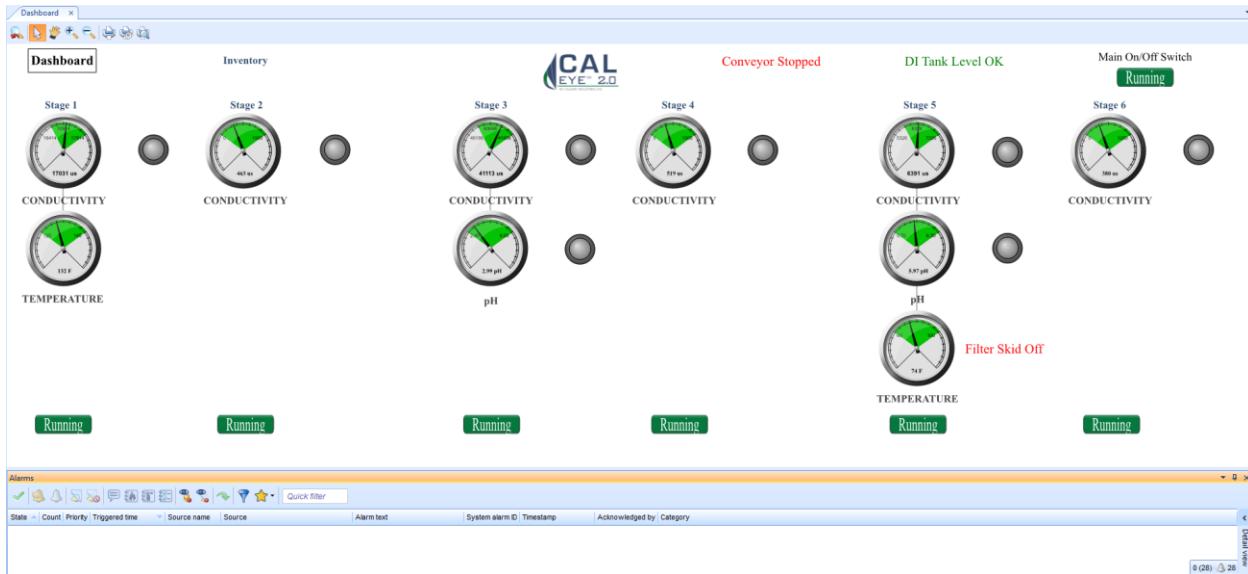




Calvary Industries is pleased to introduce our new, customizable, automated control system, the CAEye 2.0. As a manufacturing company since 1983, we have learned that there is an ongoing need in Washer and Paint lines for improved automated controls. Our goal in creating the CAEye 2.0 is to provide comprehensive process management, which will increase at-the-washer and supervisory control, while improving performance, and lowering costs.

The CAEye 2.0 provides real-time monitoring of process parameters, automatically maintains these parameters, and stores all collected data in easily exportable trend logs. This is done by using a closed-loop, high security, Supervisory Control and Data Acquisition system, known as SCADA.

The System Dashboard provides an overview of what is going on in each stage of the washer. You have a gauge for each parameter being monitored. When a measurement goes out of your predetermined range, the system will alert you that attention is required. This will trigger the chemical feed pump to turn on, and cycle-pump until it auto-corrects back to the desired conductivity.



As a bath ages and gathers contaminants, the target conductivity in the bath will need to increase in order to keep the chemical concentration at its optimal level. The CAEye 2.0 uses titrations to calculate the new limits, and then auto-corrects itself to the new target range.

Access to real-time information is key to running a manufacturing line, but just as important, is access to historical data. The CAEye 2.0 provides you trend charts for every parameter being measured. The ability to view these trends is certainly beneficial when auditing and for documenting control of your processes.

In addition to logging your monitored parameters, the CAEye 2.0 also tracks things such as chemical usage, conveyor run time, alarm log history, titration history, and other useful information. These reports can be automatically generated as often as you would like, and emailed.

The CAEye 2.0 is fully adaptable to many functions. We realize that every company is unique, so with the CAEye we provide to you a control system that is built for your specific needs. Access to both historical and real-time information, matched with immediate alarms and auto-correction, will provide you the confidence that you are effectively controlling your manufacturing processes.

## FEATURES

- Monitoring and controlling process parameters: temperature, conductivity, pH, spray pressure, conveyor status, tank levels
- Track chemical usage
- Automatic or timed feed of chemical pumps
- Automatic or timed opening of water valves
- Supervisory Control & Data Acquisition (SCADA)
  - Centralized workstation PC for monitoring
  - Monitored values are stored in trend logs that are easily exportable. Data is archived in SQL Server database for long-term history
  - System Alarms/Reports
- Real-time remote access
- Maintenance reminders (e.g. clean probes)

## BENEFITS

- Reduction in water usage
- Reduction in downtime
- Reduction in reject rates
- Real-time information and alerts promote washer corrections to prevent defective parts
- Availability of historical information supports investigation into problem parts
- Reduced warranty costs
- Reduced gas usage via energy-saving mode when parts are not being processed