

# ENTRAINED AIR CONTROL SYSTEMS

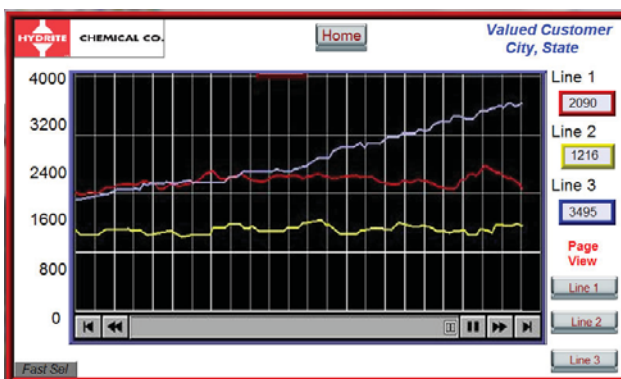


## AUTOMATED FOAM CONTROL SYSTEMS FOR FOOD PROCESSING

Hydrite Chemical Co. is proud to introduce a unique automated feed system to control antifoam dosage based on real-time measurements. The Entrained Air Control System (EACS) is an innovative, proprietary technology to detect and measure the presence of entrained air (bubbles) at the microscopic level before problematic foam begins to form. When an increase in entrained air is detected, the system automatically commands metering pumps to inject a precisely calculated amount of defoaming agent at the optimum point in the fluid process to maintain acceptable foam levels.

### BENEFITS

- **Cost control**  
Reduce chemical use by 20-50%, resulting in substantial savings in both chemical and shipping costs
- **Inventory management**  
Prevent run-out situations and minimize or eliminate expedite charges
- **Process troubleshooting**  
Correlate increased defoamer feed rates with process issues
- **Continuous improvement**  
Track and trend chemical feed rates to justify continuous improvement projects
- **Asset protection**  
Minimize foam formation, prevent product loss and equipment damage
- **Continuous monitoring**  
Monitor and control the system with web-enabled devices from anywhere



### REAL TIME TRENDING

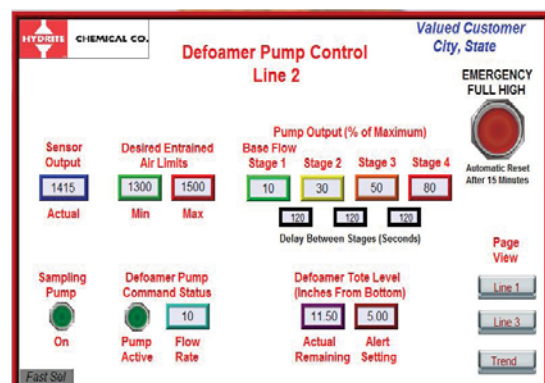
Current and historical flow rates are displayed in real time on the unit's color touch screen interface. Trend data can be stored on a variety of media for long-term access and analysis. Data can be accessed 24/7 with a web-enabled device from anywhere in the world.

# Providing Creative Solutions



## FEATURES

- Automatic e-mail alerts and text messages for out of parameter conditions
- Industrial quality, weatherproof cabinet
- Internet accessible via LAN port
- Stainless steel sensor bodies fully compatible with standard pump manifolds
- Color LCD touch screen Operator Interface Terminals (OIT)
- Fully customizable OIT graphics for intuitive operation and ease of training
- Compatible with most industrial hardware standards including RS485, RS232 and Ethernet - custom input and output connections available
- Compatible with most common industrial standards including MODBUS and DF1 - custom protocol available
- Communication between master and remotes via Ethernet, RF or hardwire
- Power requirement is 110 VAC at <15 Amps
- Easily integrated into existing chemical control systems and processes



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