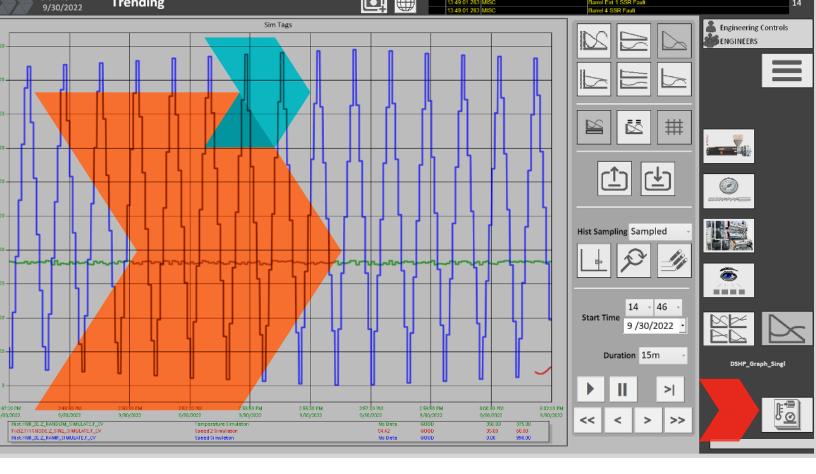
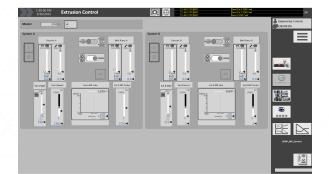


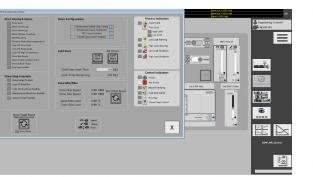
EPIC IV[®] - Supervisory Control and Data Acquisition







Davis-Standard's EPIC IV[®] integrates a high performance HMI experience with supervisory control for complex systems. With Windows[®]-based plant management and extensive process control capabilities, the EPIC IV[®] can be customized for any extrusion or converting application. Supervisory features include alarm and event logging, customized real-time reports, SQC, historical trending, data collection, maintenance/troubleshooting help files, calibration, tuning, and more.



Advantages

- iFIX SCADA software for Windows®
- Premium connectivity solutions enable the EPIC to communicate with a wide variety of third party equipment.
- ControlLogix PLC platform standard
- Best-in-class historian software solution that collects, stores, and retrieves data efficiently and securely
- ReACT Remote access for service and support requires an Internet connection
- Multi-level security system to protect set-up functions and accessibility
- OPC UA server available for MES/ERP connectivity.
- Multi-Language support for global availability
- Adaptable and expandable touch-screen displays
- Machine KPI data clearly displayed on line overview and control screens that are customized to match the specific application

Main Menu

- Multiple levels of security access to protect critical set-up functions
- Operator entry to identify operator name, shift number, and production run data
- Access to traceability, maintenance, and troubleshooting features
- One click navigation to all key system features Trending, Recipe, Reports, Alarming, Event log, etc.

Line Overview

- Co-engineered with the customer and Davis-Standard to meet exact process requirements
- Provides a line status at a glance key process data summary

Temperature Control

- Pop-up keypad for setpoint entry also displays max, min, and current values.
- Ability to change multiple zones from one set point entry

Line Control

- Drive start/stop
- Drive speed / ratio / torque setpoint entry based on application requirements, uses similar keypad to Temperature Control
- Drive % load
- Drive coordination

Recipe

- Provides process repeatability
- Automatic line set-up
- Expanded note capability add comments
- User permissions determine ability to delete, edit, and save

Alarm

- Status
- Logging
- Alarm summary page Alarms can be sorted in a variety of ways - Tagname, Time In/Last, Acknowledge Time, Ascending, Descending, etc.
- New alarm pop-up banner appears on all active screens

| 11:39:36 AM 9/30/2022 Extruder Temperatures | | 0 |
|--|---|---|
| Ext A Barrel | Ext A Downstream | Linging Controls |
| Ext A Bri Ext A Melt Zone 1 Zone 2 Zone 3 Zone 4 Zone 5 Zone 6 | | Ext A pare 2 ENGINEERS |
| | | 600 °F |
| Ext B Barrel | Ext B Downstream | |
| Image: Second | Ope Algebra Page Marci Hard | |
| Die Zones | | TC Group Select: |
| Det Det Bio Det Det Bio Det Disc Det Bio Disc Det Bio Dis Det Bio Disc Det | Del Del Del Tel <t< th=""><th>EA Bord EA Downtreen Et Bord Et Downtreen Do Zons</th></t<> | EA Bord EA Downtreen Et Bord Et Downtreen Do Zons |

Trending

- Multiple pen plots can view a single trend, or a (4) trend screen.
- Simple configuration pre-configured tag filters help speed pen selection
- Dynamic chart zoom and pan
- Historical and real time

SQC

- X
- Range
- Sigma
- Simple configuration
- Statistical trend alarms
- CPK calculating

Event Logging

Log all system events:

- Set point changes
- Alarms
- Recipe name
- User

Device Specific Pop-Up and Maintenance Screens

- Elevated user login has access to scaling, tuning, extra help screens
- Trend analysis for easier tuning of temperature or pressure

EPIC IV® - Supervisory Control and Data Acquisition

EPIC IV® Operator Station

Industrial PC with the following features and equipment:

- Intel[®] Core based processing power
- Windows[®] operating system
- SSD Solid State Disk
- Low power 24 VDC operation
- Extended temperature range eliminates the need for an air conditioner
- UPS for automatic system shut down after an extended power loss to prevent data corruption
- Color touch-screen monitor
- Printer is optional
- GbE Ethernet, USB 2.0/3.0, and Serial ports are available to support the connectivity solutions

EPIC IV® Process Controller

- Programmable Logic Controller (PLC) standard hardware:
- Chassis based I/O rack
- High performance process automation controller
- Power supply
- Analog input/output modules (as required)
- Discrete input/output modules (as required)
- Type J thermocouple input module(s)
- "Modular" process control software application, expertly applied to every project.

OPTIONS

- Serial communications with selected equipment
- Network connections (native Ethernet/IP) for distributed I/O and third party equipment
- Safety rated processor and I/O to support safety over wire

