

## DS-eTPC II (TOUCH PANEL CONTROL): COMPREHENSIVE HMI/PLC CONTROL

For processes that do not need a complex control solution, we offer the DS-eTPC II. This integrated PLC/HMI solution replaces discrete temperature controllers, pressure indicators and controllers, drive operators and indicators, as well as basic interface to line equipment. It includes a 15-inch color touch-screen with built-in PLC line controls for easy replacement of older controls. It is capable of controlling three extruders at once, making it ideal for laboratory lines as well as basic blown film, elastomer, profile and wire and cable applications.

Pre-engineered solutions provide:

- Temperature control, pressure and drive control at discrete pricing
- Coordinated line drive control (standard)
- An operator friendly design
- Recipe creation and storage
- Real-time and historical trending
- Provision for system networking to a supervisory computer via Ethernet LAN

Pre-configured options include:

- Additional heat zone control
- Line drive control of two line drives
- Closed loop pressure control for melt pump operation for each extruder

## CONTROL UPGRADES

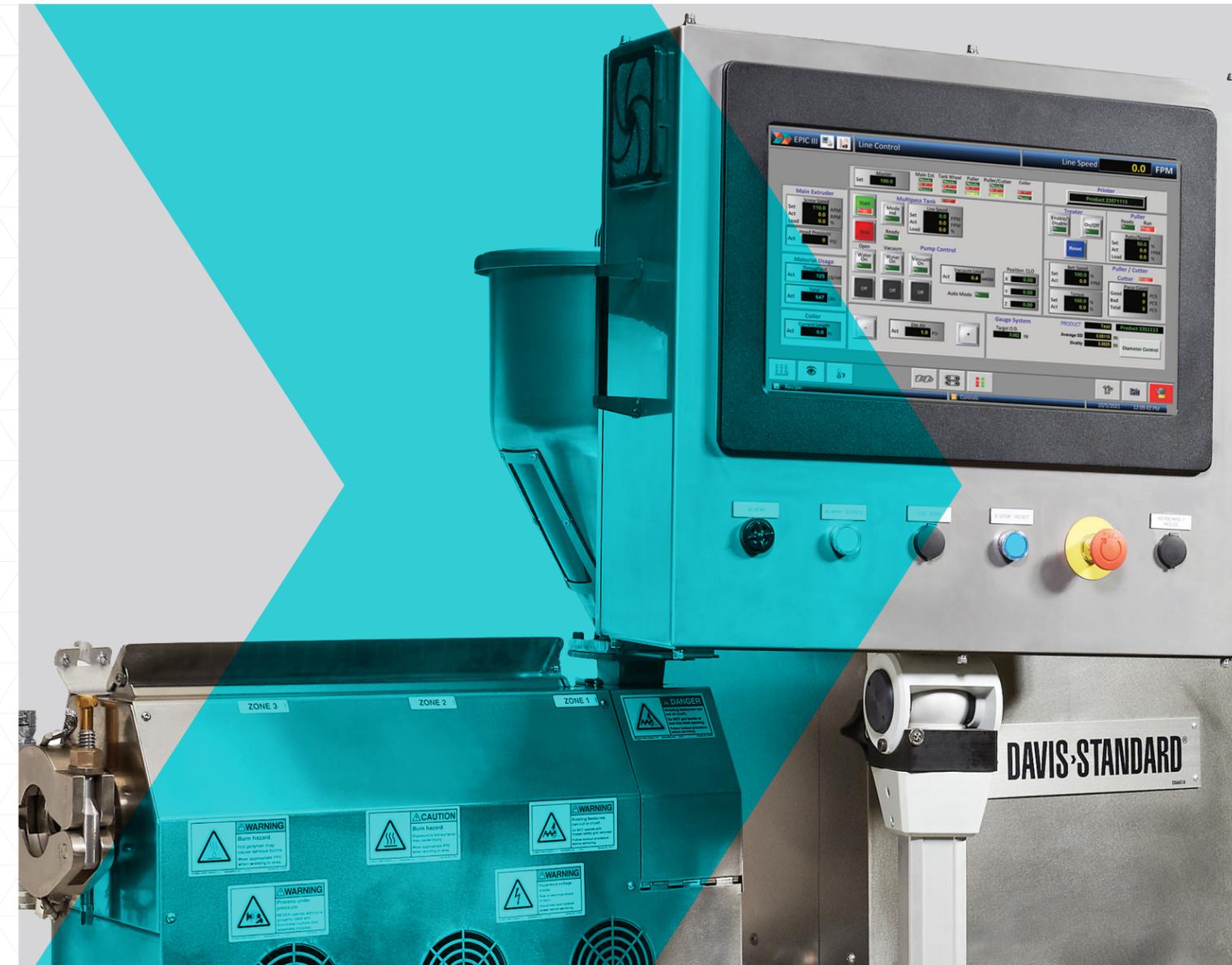
In addition to operator interface upgrades, we offer these alternatives to support line performance:

- Upgrades for obsolete DC and AC drives to current AC drive technology
- Complete control panel replacement of older or obsolete components and standards
- Safety assessments and recommendations based on current standards

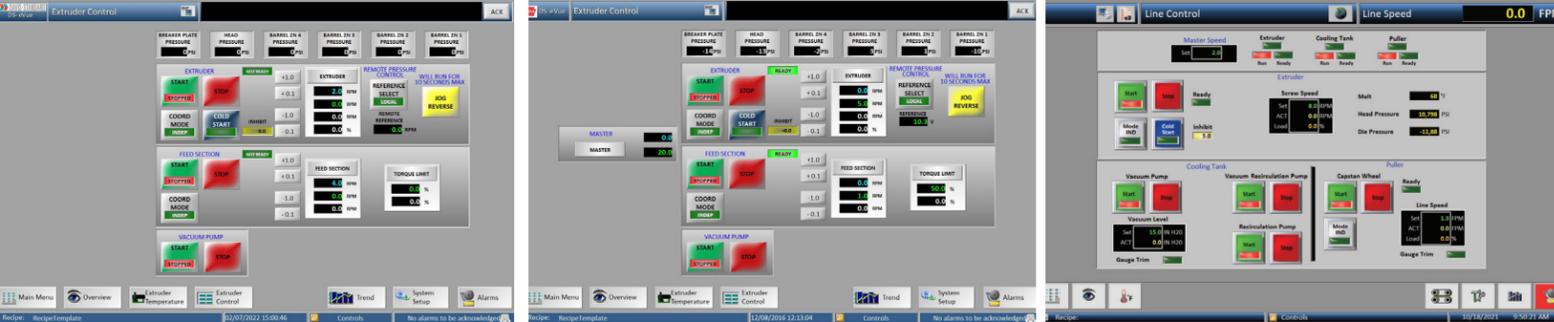
## INTEGRATOR PRO

For your high-level converting processes encompassing blown film, cast film, extrusion coating, solvent and aqueous coating and drying, we recommend the Integrator Pro. This innovative system combines total line control and data monitoring into one multi-functional information center. You can enjoy supervisory control with all converting machine line components integrated into a single, user-friendly operator interface. The Integrator Pro delivers:

- A graphics-based touch screen interface
- Machine overview, component details, line drives display, water recirculation diagram
- Recipe management, process reporting, alarm and event logging, line and extruder diagnostics
- Historical data tracking and system security
- Standard Windows based PC computer hardware and software
- Distributed architecture and system networking capabilities



Process Controls Engineered for You



Efficient and reliable machinery performance is essential to your operation. Applying the latest control technology can have a significant impact.

Our multi-level control systems and upgrades are designed for your convenience, process requirements, and budget parameters. Upgrade opportunities for Davis-Standard's three most widely used control systems – the EPIC III®, DS-eVUE and DS-eTPC II – support Davis-Standard brands as well as those of other manufacturers. Bring us your specifications and we'll find the most viable solution for updating or replacing your obsolete control systems.



## Advantages

Here's the good news. Controls are one of the first things to become dated, yet one of the easiest to upgrade. Davis-Standard is one of the few extrusion machinery manufacturers to engineer, procure, assemble, and test system controls in-house. Today's control systems give you peace of mind with:

- Single-source accountability and reliability
- Personalized and expedient customer service
- Improved repeatability, data collection and connectivity

In addition, certain upgrades come equipped with our ReACT (Remote Access Technology) support system. This makes it possible for you to take advantage of remote troubleshooting via a secure Internet connection.

## ReACT (REMOTE ACCESS TECHNOLOGY) SUPPORT PROGRAMS

The ReACT program, standard on all new HMI systems, enables Davis-Standard to provide you with real-time support without a service call. You can view process conditions remotely during a production run without the need to stop the line. You can also take advantage of remote high-speed troubleshooting with a Davis-Standard technician at any time, from anywhere. ReACT is supported by most major web browsers to ensure compatibility and access.

- Real-time viewing and control of HMI screens and PLC without affecting the current application
- Faster response to your needs for HMI/PLC controls or process issues
- Delivers remote troubleshooting and process support (via a third hard drive connected by the customer.)

## EPIC III®: HIGH-LEVEL CONTROL FOR COMPLEX SYSTEMS

For larger custom processes such as complex wire and cable, sheet and select tubing applications, we recommend the EPIC III® supervisory control system. This is our most full-featured system, offering Windows®-based touchscreen control and advanced supervisory functions. The EPIC III® is equipped with ReACT and can be upgraded or used to replace older or obsolete controls. Take advantage of:

- A 23-inch widescreen monitor with adaptable and expandable touch-screen displays
- Supervisory features: event logging, customized reports, SQC, historical trending, troubleshooting, pressure set-up and more
- Partial and complete line overview, detailed extruder data, recipe creation and storage
- Connectivity solutions for remote data access via laptop or web browsing
- Multi-level security to protect set-up functions and accessibility
- Network capability for remote monitoring of multiple systems
- GE Proficy iFIX™ SCADA software for Windows®
- Object Linking and Embedding for Process Control (OPC)/OPC-UA

This is your Ideal solution for obsolete proprietary systems such as EPIC II, Extrol, and the MESA-Pak Pro.

## DS-eVUE: MID-LEVEL PROCESS CONTROL

For mid-range processes such as flexible tubing or medical applications, the DS-eVUE is an attractive solution for replacing obsolete PLC controls and supervisory systems. It offers you several features of the EPIC, including Windows®-based process control capabilities, but with a reduced SCADA data tag. As with the EPIC, the DS-eVUE includes the ReACT support program. You will also be able to interface with the majority of existing PLC controls, or we can provide a complete upgrade for outdated PLC controls. Benefits of DS-eVUE include:

- 19-inch touch-screen control via a high-resolution color LCD of drives, pressures and temperatures
- Supervisory features such as event logging, customized reports and SQC
- Historical trending, maintenance and troubleshooting, pressure set-up
- Partial and complete line overview, detailed extruder data, recipe creation/storage
- Multi-level security system to protect set-up functions and accessibility
- Network capability for remote monitoring of multiple systems
- GE Proficy iFIX™ SCADA (limited tag count) software for Windows®
- Object Linking and Embedding for Process Control (OPC)/OPC-UA
- Electronic signature to comply with FDA CFR21-Part 11

This is the best option for upgrading the MESA-III legacy control system. Mounting options include swing arm, slope front or console.

