



## Emerson Automation Solutions Hannover Messe 2020 Booth #B38 Highlights

Emerson is a global technology and engineering company providing innovative solutions and improving Process and Industrial manufacturing performance with measurable results for customers. Offering valve technologies, intelligent gateways and automation platforms designed to help manufacturers digitally transform their pneumatic and fluid control operations with ease. Smarter, more integrated pneumatics yields several benefits—including **improved energy efficiency, system availability and costs**. The following solutions provide these advantages and will be on display at Booth #B38, Hall 6.

### Creating Value with Smart Pneumatics

Smart pneumatic systems can gather high levels of diagnostic data, not only about their own functionality, but about the components connected to them—particularly when it comes to wear and energy. To demonstrate how Emerson solutions improve energy efficiency and lower operating costs, the following solutions will be on display:

The [AVENTICS Smart Pneumatics Monitor \(SPM\)](#) provides condition monitoring and energy analysis of pneumatic systems—all without machine control. The SPM delivers valuable data about actuator wear, allowing users to initiate proactive maintenance measures. Thanks to a simple drag-and-drop feature, users can assemble and link the components to be monitored. The SPM then records and analyzes collected data on the local level, then sends the information to end-devices or higher-level IT systems via OPC UA and MQTT. In addition to increasing system availability, the SPM minimizes the risk of machine downtime and substantially lowers operating costs.

The [AVENTICS AF2 Series Flow Sensor](#) monitors air consumption in pneumatic systems—helping operators take fast action in case leaks are detected. In addition to flow, the AF2 determines the pressure and temperature in the feed line. It then forwards data to the controller via standard switches, analog outputs or input/output (I/O) links. This sensor can also communicate directly with higher-level systems via OPC UA and MQTT.

### Fieldbus Electronics Made Easy

Integrating valve manifolds with I/O and automation capabilities can simplify the design and operation of pneumatic systems. To demonstrate the ways Emerson makes this process quick, simple and painless, the following solutions will be on display:

The [ASCO G3 Electronic Fieldbus Platform](#) integrates communication interfaces and I/O capabilities into pneumatic valve manifolds—allowing the PLC to more efficiently turn valves on and off, as well as channel data from sensors, relays and other I/O devices. By supporting star and in-line topologies, G3 replaces conventional hardwired solutions—reducing the length of cable runs and lowering material costs. It also provides several analog and digital I/O functions, including temperature functions for wear monitoring. G3 is the only pneumatic valve manifold that contains an easy-to-use graphical display, facilitating configuration, commissioning and diagnostics.

For applications that don't require the full capabilities of G3, Emerson also offers the [ASCO Series 580](#) electronics platform with a space-saving design for tight installations. Like the G3, it integrates a graphic display and is easy to configure, commission and maintain.

For more information, visit [www.emerson.com](http://www.emerson.com).