



## Capabilities Video Illustrates Advantages of Industrial Mass Flow Controllers for OEMS

### NEW VIDEO: How Industrial MFCs' Application Flexibility & Custom Engineering Provide Solutions for OEMs and Systems Integrators

**Monterey, California-** Sierra Instruments' new capabilities video demonstrates how Sierra's SmartTrak 100 industrial mass flow meters and controllers are specifically engineered to provide application flexibility and optimize performance for [OEMs/Integrators](#).

SmartTrak 100 industrial MFCs are optimized for nearly any application requirement: multi-gas capability, ultra-low flows (0 to 0.1 sccm), high flows (to 1000 slpm), corrosive gases, low pressure drop (4.5 psid), and high pressure (up to 5000 psig). And all SmartTrak meters feature a small footprint, NEMA 6 and IP67 ratings, and easy systems integration with free user software, CE approval, and a variety of communications protocols like Modbus, Profibus and Foundation Fieldbus.

With the remote or face-mounted pilot module display/interface, view and change every aspect of SmartTrak 100 at any time with the push of a button. A true multi-gas digital MFC, end users can simply choose a gas from the menu and it's ready to go, without losing any accuracy. You can also adjust engineering units, flow range, and set zero, span and full scale independently for each gas. SmartTrak has a strong and flexible control valve with accessible PID valve tuning to ensure best speed and reliability. Custom valve orifice sizing yields full-range stability.

For easy integration, the [Compod](#) allows end users to set up simple process control systems without the need for PLCs or computers. In addition, end users can add functionality to control a positive shutoff valve, add a pulse output, and read and react to a pressure transmitter. The Compod also allows for easy datalogging and diagnostics, the ability to send and receive data, and verify end user value faults or system upsets.

"The application flexibility of our SmartTrak line of industrial [mass flow controllers](#) provides creative engineering solutions for the most complex systems integration and [OEM projects](#). Our engineers pride themselves on working with customers over the lifetime of the project to provide the best flow meter integration solutions possible. Application flexibility and precision measurement and control make the SmartTrak industrial mass flow controller a perfect OEM solution for any integration project," says Scott Rouse, Vice President of Product Management.

Direct Mass flow with thermal technology offers an accuracy of +/-1% of full scale, repeatability of +/-0.2% of full scale. Thermal mass flow technology is an industry standard for mass flow control of gases

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because it measures flow directly, at the molecular level. Unaffected by upstream gas temperature and pressure fluctuations, gas mass flow control is direct and stable.

SmartTrak's NIST traceable accuracy is backed by ten-point primary standard calibration over the entire flow range. All calibration assets including closed-loop calibration, and piston and bell provers are ISO 9001 certified and ISA 17025 compliant. In addition, OEMS who prefer to calibrate their flow meters and controllers in-house are provided with all necessary software, training and even the flow calibration standards required.

Systems Integrators needing custom engineering can rely on Sierra. By utilizing nearly 40 years of flow meter design experience, Sierra can modify any existing product to meet Original Equipment Manufacturer (OEM), Private Label, or general customer needs. Sierra also customizes, often free of charge.

### **About Sierra**

A global leader in flow measurement and control for over 40 years, Sierra instruments designs and manufactures high performance flow instrumentation for nearly any gas, liquid and steam application spanning across global industries as diverse as scientific research, oil & gas, energy management, semicon, clean energy, aerospace and biotech to name a few. In everything we do, we challenge the status quo and thrill in doing the "never before possible" to continually push our technologies and solutions to the next level. With over 150 offices in 50 countries, Sierra is uniquely positioned to provide their innovative products and lifetime support for the leading companies of today and the growth enterprises of tomorrow.

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