

## **New FCI Video Explains Maintenance Cost Advantages Of VeriCal In-Situ Calibration with ST100 Flow Meter**

Fluid Components International

A new video from [Fluid Components International](#) [1](San Marcos, CA) illustrates the [VeriCal](#) [2] In-Situ Calibration System for the ST100 Series Flow Meter, which enables periodic field validation and verification of a flow meter's measuring performance without extracting the meter from the pipe or process. The easily installed VeriCal in-situ calibration solution can validate performance on-site in minutes and assist with compliance with ISO and local regulations.

The VeriCal In-Situ Calibration System allows for the verification of flow meter calibration in minutes without removing the meter from the pipe or process and makes it easy to meet process validation and comply with environmental regulation requirements. In the past, flow meters had to endure the cost and hassle of being pulled from the process, returned to the manufacturer or a calibration lab for testing, and shipped back for re-installation.

The VeriCal In-Situ Calibration System is available for the ST100 Series Flow Meter, which offers feature-rich, function-rich electronics. The ST100's flow sensing performance delivers adaptability and value to meet plant gas flow measurement applications for today and tomorrow.

Beyond continuously measuring, displaying, and transmitting the industry's most extensive array of parameters, the ST100 covers needs for 4-20 mA analog, frequency/pulse, alarm relays, and digital bus communications such as HART, Fieldbus, Profibus, and Modbus.

Should a plant's needs change over time or an upgrade be desirable, the ST100 Flow Meter adapts as necessary with a plug-in card replacement that can be changed out by plant technicians in the field.

The ST100 Flow Meter's unique graphical, multivariable, backlit LCD display/readout brings new meaning to the term "process information". It provides comprehensive information with continuous display of all process measurements and alarm status, and is able to interrogate for service diagnostics. The user-friendly ST100 stores up to five unique calibration groups to accommodate broad flow ranges, differing mixtures of the same gas and multiple gases, and obtains up to 1000:1 turndown.

The ST100 offers three different types of flow sensors to best match user applications. The fast-response FPC-style features an integral flow conditioner and protective shroud optimized for compressed air and clean gas applications. For wet or dirty gases or erratic flows, the unshrouded S-style facilitates easy cleaning and provides a smoothed response. The fast-response, general purpose FP-style

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features a protective shroud and is the sensor used with FCI's VeriCal in-situ calibration option.

The comprehensive ST100 Series comprises two core model families: ST and STP. ST meters measure both mass flow and temperature, and the exclusive STP family adds a third parameter: pressure. Both families include single-point and dual-element models as configurations outfitted with FCI's exclusive in-situ calibration option, VeriCal.

The ST100 can be calibrated to measure virtually any process gas, including wet gas, mixed gases, and dirty gases. The basic insertion style air/gas meter features a thermal flow sensing element that measures flow from 0.25 to 1,000 SFPS (0.07 to 305 NMPS) with accuracy of  $\pm 0.75$  percent of reading,  $\pm 0.5$  percent of full scale.

Designed for rugged industrial processes and plants, ST100 Flow Meters include service up to 850°F and are available with both integral and remote (up to 1,000 feet) electronics versions. The ST100 is agency approved for hazardous environments, including the entire instrument, the transmitter, and the rugged, NEMA 4X/IP67 rated enclosure. Instrument approvals (submitted and pending) include FM and FMc: Class 1, Division 1, hazardous locations, Groups B, C, D, E, F, G; ATEX and IECEx: Zone 1, II 2 GD Ex d IIC T4.

For more information please visit [www.fluidcomponents.com](http://www.fluidcomponents.com) [1]

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### **Links:**

[1] <http://www.fluidcomponents.com>

[2] <http://www.verical.com>