



**NORTH AMERICA**  
5 HARRIS COURT BUILDING L.  
MONTEREY, CA, 93940  
800-866-0200  
PHONE: 831-373-0200  
FAX: 831-373-4402  
www.sierrainstruments.com

**ASIA-PACIFIC**  
TOMSON CENTRE, RM. A618  
188 ZHANG YANG ROAD,  
PU DONG NEW DISTRICT,  
SHANGHAI, P.R. CHINA 200122  
PHONE: 8621 5879 8521  
FAX: 8621 5879 8586

**EUROPE**  
BIJLMANSWEID 2  
1934 RE EGSMOND A/D HOEF  
THE NETHERLANDS  
PHONE: +31 (0)72-5071400  
FAX: +31 (0)72-5071401



## Sierra Instruments' Steel-Mass™ Model 640S Now Available with Self-Cleaning Purge Port

**MONTEREY, CA – February 27, 2009** –Sierra's industry-leading Steel-Mass™ Model 640S Immersible Thermal Mass Flow Meter is now available with a new self-cleaning purge port field proven to remove even the toughest caked-on dust deposits on the meter.

The new self-cleaning Steel-Mass™ Model 640S is designed for the most demanding industrial gas mass flow measurement applications. Constructed of heavy-duty 316 stainless steel wetted materials, the self-cleaning Model 640S is designed for very dirty flows where residue buildup can occur over time on the sensors causing reduced accuracy.

The self-cleaning Model 640S has proven its ability to overcome residue buildup in two particularly nasty applications. The first application is in the tire manufacturing industry where rubber particles in the air flow repeatedly clogged up orifice flow meters. The self cleaning 640S answered the challenge. The purge system utilizes compressed air from an external source and a uniquely designed cleaning nozzle to blast particulates away from the thermal sensing elements, all WITHOUT removing the flow meter from the pipe. A built-in check valve isolates the system from the outside environment.

The second application is at coal-fired power plants, where combustion air is pre-heated to temperatures approaching 500°F (260°C) prior to it being mixed with the pulverized coal and burned in the boiler to produce steam for electricity. The annubars used are repeatedly clogged by coal dust, leading to inefficient combustion and increased emissions. The annubars required weekly cleaning, resulting in wasted time and money. Sierra's self-cleaning Model 640 solves this problem with high accuracy, easy installation, and low maintenance in a rugged, explosion-proof package. Instead of having to remove, clean, and reinstall annubar meters weekly, plant maintenance simply connected plant air to the purge fitting and blew down for a few minutes, with no interruption to the process.

Featuring direct gas mass flow measurement, each self-cleaning Model 640S utilizes Sierra's patented Dry-Sense™ Technology for drift-free performance...year after year. The meter also features Sierra's Smart Interface™ Package for field programming and meter validation and diagnostics.

All of Sierra's flow meters are calibrated to exacting customer specifications at Sierra's calibration laboratories and are directly traceable to NIST and compliant to ANSI/NCSL Z540 and MIL-STD-45662A and certified to ISO 9001 standards.

The Steel-Mass™ Model 640S is hazardous area approved by CSA and CRN (Canada), FM (USA), ATEX, CE and PED (EU), IEC Ex (Australia) and Chinese Pattern Approval (China). Meter accuracy is +/- 1% of reading plus +/-0.5% of full scale with repeatability of +/- 0.2% of full scale.

### FOR IMMEDIATE RELEASE

*Press Contact:*

Maryadine Washington  
831-373-0200  
FAX 831-373-4402  
m\_washington@sierrainstruments.com

*Technical Contact:*

Scott Rouse, Product Manager  
800/866-0200  
FAX 831/373-4402  
s\_rouse@sierrainstruments.com

MORE



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FAX: +31 (0)72-5071401

*Press Contact:*  
Maryadine Washington  
831-373-0200  
FAX 831-373-4402  
m\_washington@sierrainstruments.com

The 3/4" diameter sensor probe inserts easily into ducts and pipes up to 72-inches in size and is offered with a wide range of process connections (including hot tap). For very large ducts, multipoint flow averaging arrays are available, complete with a self-contained human-machine interface (HMI) panel that allows for touch-screen field programming and operation of the entire system.

## **ABOUT SIERRA**

*Technical Contact:*  
Scott Rouse, Product Manager  
800/866-0200  
FAX 831/373-4402  
s\_rouse@sierrainstruments.com

Sierra is one of the most trusted [manufacturers of high performance flow meters and controllers](#) today. By combining superior product quality with a talented global support network of flow experts in 47 countries, Sierra consistently delivers quality flow measurement solutions for each customer.

Our Thermal Mass, Transit-Time Ultrasonic, Vortex Shedding and Multivariable instruments are available in both standard and customized versions for applications in laboratory, industrial and hazardous environments. Sierra's flow measurement technologies precisely measure or control very low flows of gas down to less than 1 sccm full scale as well as extremely high flows of [gas](#), [liquid](#), and [steam](#). With rugged product design, cutting-edge innovation, and a worldwide team of [flow experts](#), experience why customers around the globe rely on Sierra.

Visit us at [www.sierrainstruments.com](http://www.sierrainstruments.com) or call us at 800-866-0200 to learn more.

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