Sensirion’s mass flow measurement for smart gas boilers

Sensirion AG, the leading manufacturer of sensor solutions, extends its expertise in the smart energy market and makes gas boilers more comfortable and environmentally sound. The Swiss manufacturer’s completely calibrated and temperature-compensated sensors and sensor solutions ensure precise and reliable measurement of the air mass to a combustion chamber. This expertise enables not only higher boiler efficiency but also a significant increase in the modulation ratio, which, in turn, enhances the comfort and lifetime of the boiler.

Thanks to their compact size and flexible modification options, Sensirion’s solutions for mass flow measurement can be installed in any boiler. In addition, the proven sensors guarantee a wide dynamic control range, the elimination of zero-point drift, outstanding repeatability and accuracy and the option of certified intrinsic safety. Sensirion also offers sensor solutions for the measurement of temperature and relative humidity, as well as natural gas with gas quality compensation.

The sensor performance is based on the patented CMOSens® Technology, in which the sensor component and the evaluation circuit are integrated on a single CMOS microchip. In conjunction with a specially developed sensor packaging, the result is a more cost-effective system with significantly higher precision and repeatability, representing a quantum leap in mass flow and differential pressure measurement.

With its products and services, Sensirion strives to meet the highest quality and environmental standards. The company places great importance on the production and ongoing development of energy-efficient applications for its end customers. Sensirion’s sensor solutions enable a massive expansion of the adjustment range area with improved energy efficiency. This makes the Swiss company not only a global leader in technology, but in environmental terms too. Sensirion’s mass flow measurement for smart gas boilers enables energy and cost efficiency, comfort and safety.

Visit us at stand 3461 at the AHR Expo trade fair in Chicago, USA, from 26 to 28 January 2015 to find out more about our mass flow measurement solutions for intelligent gas boilers. You can also find further information on our website:

- Differential pressure sensors: www.sensirion.com/differentialpressure
- CMOSens® Technology: www.sensirion.com/technology

About Sensirion

Sensirion AG, headquartered in Staefa, Switzerland, is the world’s leading manufacturer of digital microsensors and systems. The product range includes humidity and temperature sensors, mass flow controllers, gas and liquid flow sensors, and differential pressure sensors. An international network with sales offices in the USA, Germany, China, Taiwan, Japan and Korea supplies international OEM customers with tailor-made sensor system solutions for a vast range of applications. Among other things, these include analytical instruments, consumer goods and automobiles, as well as the medical and HVAC industries. One of the hallmark features of Sensirion products is the use of patented CMOSens® Technology. CMOS-based sensor elements and systems permit intelligent system integration, including calibration and a digital interface. Sensirion’s credentials as a reliable OEM supplier are underscored by its ISO/TS 16949 certification.

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