

Press release

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Dedicated European standard EN 17526 for thermal-mass gas meters is released

Thermal-mass gas meter modules: certified for the future

EN 17526 is the new European standard dedicated to thermal-mass gas metering. It can now be used to certify new thermal-mass gas meters deployed in the field. EN 17526 is the first standard for a static technology to cover not only residential but also commercial and industrial gas meters. It is also a harmonized standard, which ensures continuity with existing regulations – this means that thermal-mass gas meters certified according to proceeding standards do not have to be re-certified.

The best technology to measure hydrogen

EN 17526 is the first gas meter norm to be updated to include renewable gases such as hydrogen and biomethane. This confirms that thermal-mass technology is suitable to work with green gases. Moreover, thermal-mass technology is the best solution on the market for measuring hydrogen in terms of accuracy, safety, cost and the variety of parameters that can be extracted from the gas composition. Not only that, it improves gas network management and, importantly, increases satisfaction levels for end users. Crucially, the meter can remain the same compact size, no matter whether it is measuring 100% natural gas or 100% hydrogen – even if the flow of hydrogen is three times higher to account for its lower calorific value. This is a unique feature that sets thermal-mass technology apart from other solutions.

Mature technology

The release of EN 17526, a standard dedicated to thermal-mass technology, underlines the maturity of the technology and is an acknowledgment that over 6 million meters have been successfully installed in the field over the last 15 years. The standard will also serve as the inspiration for the creation of national gas metering norms across the world, a process that is currently underway in multiple countries.

Lead the energy transition with Sensirion's solutions for a multi-gas future. Learn more about Sensirion's thermal-mass gas meter modules on our website: www.sensirion.com/thermal-mass

About Sensirion – experts for environmental and flow sensor solutions

Sensirion, headquartered in Staefa, Switzerland, is a leading manufacturer of digital microsensors and systems. The product range includes gas and liquid flow sensors, differential pressure sensors and environmental sensors for the measurement of humidity and temperature, volatile organic compounds (VOC), carbon dioxide (CO₂) and particulate matter (PM_{2.5}). An international network with sales offices in the US, Europe, China, Taiwan, Japan and Korea supplies international customers with standard and custom sensor system solutions for a vast range of applications. Sensirion sensors can commonly be found in the medical, industrial and automotive sectors, analytical instruments, consumer goods and HVAC products.

One of the hallmark features of Sensirion products is the use of its patented CMOSens® Technology, which permits intelligent system integration of the sensor element, logic, calibration data and a digital interface on a single chip. Sensirion's credentials as a reliable supplier are underscored by its loyal customers, reputation for high quality (ISO/TS 16949) and top customer pedigree.

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