

400 bar Nano Flow Sensors



The leading supplier of micro sensor solutions, Sensirion AG (Switzerland), announces a long awaited high pressure series of its nano flow meters for microfluidic systems (www.sensirion.com). Flow meters from the enhanced SLG1430 series for flow rates in the nano- and micro liter range undergo a pressure test at 400 bar (5800 psi) after assembly. Recommended max. pressure during operation is 350 bar (5000 psi).

The CMOSens[®] technology based devices are able to detect flow rates in the range of a few micro liters or nanoliters per minute.

Thanks to the fusion of digital signal processing with a calorimetric flow sensor element on a single semiconductor chip instrument manufacturers have access to linear, completely calibrated nano flow sensors with an exceptional resolution.

Mounted on the outside of an internal fused silica capillary (US Pat. 6813944) the highly sensitive CMOSens[®] microchips detect the flow in a totally media isolated way. By using this technology, great repeatability for analyses - the most important criterion in HPLC – is ensured. The fully digital, calibrated liquid flow meters work with a repeatability better than 0.8% of the measured value and achieve a fast response time of <50 ms. Moreover, the devices offer resolutions down to 0.5 nl/min and better. They are equipped with microfluidic connectors for OD360 capillaries and a RS232 interface. Response times in the ms-range help users to monitor effects in their systems which they have not previously been able to observe. Customized OEM solutions are available.

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About Sensirion:

Sensirion is a high-tech sensor company based in Zurich, Switzerland. Sensirion is the leading international supplier of intelligent CMOS-based sensor elements using patented CMOSens[®] Technology for humidity/temperature sensors, mass flow measurement and control devices for gases and liquids, and differential pressure sensors. Sensirion provides international OEM customers with tailored sensor system solutions for applications such as mass flow controllers, building automation modules, medical technology, and consumer goods. Sensirion customers benefit from intelligent system integration (integrated intelligence including calibration and digital interface) and can achieve cost savings thanks to easy system interfacing (ease of use) and modularity.