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Ref: S8000 -100 Launch



Written & issued by Michell Instruments Ltd.
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PRESS RELEASE

Introducing THE new laboratory humidity reference standard: Michell S8000 -100

The new Michell S8000 –100 is a high-precision, low dew-point hygrometer designed to meet the demands of humidity calibration and standards laboratories. Michell’s engineers have used the latest developments in chilled mirror technology to achieve reliable, repeatable measurements of low dew points down to -100 °C, with an accuracy of ± 0.1 °C, without the need for additional cooling.

At the heart of the new instrument is a unique advanced optics system, which detects minute changes in moisture condensed on the mirror surface. This ensures high sensitivity and fast response to changes in frost point, even at low levels of humidity, where measurements are the most challenging. The [S8000 -100 high precision chilled mirror hygrometer](#) achieves ± 0.25 °C stability @-100 °Cfp in less than six hours, the best speed available from any instrument in its class, and achieves a reproducibility of ± 0.15 °Cfp reproducibility at -100 °Cfp.

Additionally, the S8000 -100 is the smallest and lightest instrument offering frost-point measurements down to -100 °C. It weighs 22 kg and fits into the 19” rack format or can be used comfortably on a bench.

There is no need for operators to monitor the instrument continuously as it offers complete automation and remote monitoring via software. The wide range of communication protocols includes Modbus RTU over USB, RS232, RS485, Modbus TCP over ethernet. Datalogging to SD card and user-configurable analogue outputs are also available.

Typical applications for the S8000 -100 are as a reference hygrometer in standards laboratories and humidity calibration facilities and precision moisture measurements for research and development.

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Notes for Editors

About Michell Instruments

[Michell Instruments is a worldwide leader in the field of moisture and humidity measurement solutions.](#) With four decades experience, Michell designs and manufactures a wide range of sensors, instruments and customized systems capable of measuring dew-point, humidity and oxygen in applications and industries as diverse as compressed air, power generation, petrochemical, oil and gas, food processing and pharmaceutical. Michell's innovative products make processes cheaper, cleaner, more energy efficient and safe.

The company, which is part of the Process Sensing Technologies group, has multiple manufacturing locations across Europe with their international headquarters located in Ely, UK and a North America sales and service headquarters located in Hauppauge (NY). It has its own facilities in 10 countries with an extensive network of factory trained application and service engineers, subsidiaries and distributors stretching across 56 countries.

<http://www.michell.com/uk>

About Process Sensing Technologies

Process Sensing Technologies (PST) provides an unmatched suite of instruments, analyzers and sensors for precision measurements and monitoring in highly demanding end markets. These range from pharmaceutical/ life sciences, speciality gases, semiconductors, O&G, petrochemicals and power to gas detection, food and beverage and building automation.

The quality of food, medicines, semi-conductors and thousands of manufactured goods depends on reliable measurements of critical parameters such as humidity, oxygen, CO, N₂, H₂, Hydrocarbons, pressure or CO₂ during production, storage and transport. Our products directly improve the profitability of our customers and help them to stay compliant with stringent industry regulations. We own and manufacture the sensing technologies used in the majority of our products. This allows us to remain in a strong leadership position and pass on the benefits of our innovation to our customers.

The PST Group has a global presence with multiple locations in Europe, Asia and the Americas and looks for more opportunities to continue its growth through investment into new markets. www.processsensing.com