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Helping You Get Insight Into Your Application

When you manage a process, obvious threats that can be seen on the surface are only part of the picture. At Process Sensing Technologies, we specialize in measurement instrumentation and solutions that enable our clients to clearly see and monitor conditions that are otherwise invisible and pose a hidden threat.

Using our products, customers save money each year through increased energy efficiency in their processes and reduced process disruptions.

Saving Energy.

High-quality gas and humidity control products for energy-efficient equipment operation.

Protecting Processes.

Fast responding transmitters and gas analyzers for local online installations protect people and capital investment. SIL 2 certified.

Monitoring Environments.

Continuous online monitoring with best in class humidity, temperature or gas instruments.

Controlling Quality.

Reliable, high-precision industry-best measurement instruments for consistent and optimal product finish.

We are PST

- Analytical Industries Electrochemical oxygen sensors and gas-analysis
- Dynament Infrared gas sensors
- LDetek Ultra low range online analyzer
- Michell Instruments Moisture and oxygen sensing and instrumentation
- Ntron Oxygen sensors and analyzers
- Rotronic Humidity and temperature instruments, monitoring systems
- SensoScientific Real-time temperatur monitoring
- SST Sensing Oxygen sensors and liquid level switches



Our proprietary humidity and gas measurement technologies measure to parts per billion, allowing unique insights into processes that help our customers innovate as well as improve processes in demanding applications. Our products enable safer conditions for people and processes, maximize energy efficiency, improve product quality, and ensure ongoing compliance with global standards.

Industries We Serve

- Additive manufacturing
- Battery manufacturing
- Combustion efficiency
- Compressed air
- Cryogenic air separation
- Food & beverage
- HVAC & building automation
- Hydrogen & syngas
- Life Sciences & pharma
- Medical
- Metallurgy
- Meteorology
- Natural gas
- Petrochemical
- Power generation
- Semiconductor & electronics
- Transportation



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Analytical









Trace Moisture and Dew-Point Measurement and Analysis

Trace moisture measurement is essential for ensuring quality, safety and efficiency in thousands of applications across a wide range of industries. Water vapour is a serious contaminant in many processes, having a detrimental effect on the quality and integrity of final products. Water dew-point is a specific category of moisture measurement and is the most common parameter selected when condensation or ice formation is to be avoided. We offer a wide range of high-precision Michell trace moisture analyzers, water dew-point transmitters, chilled mirror reference hygrometers and process moisture analyzers which ensure peace of mind to thousands of customers around the world.

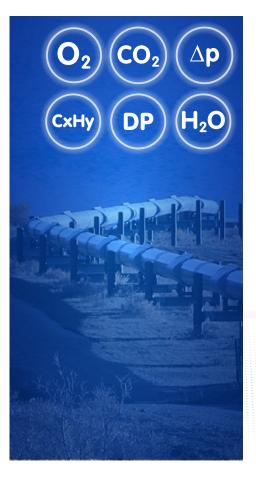
- Transmitters
- Portable hygrometers
- Chilled mirror hygrometers
- Process moisture analyzers
- Moisture in liquid analyzers
- Dew-Point analyzers



Instrinsically safe dew-point transmitter – Michell Easidew I.S.

Explosion proof moisture transmitter – Michell Easidew PRO XP

Chilled mirror hygrometer – Michell S8000 Remote



Process Analyzers for Moisture and Hydrocarbon Dew-Point Measurement

Our process analyzers for moisture and hydrocarbon dewpoint are designed for demanding applications where hydrocarbons like natural gas are extracted, processed, transported and stored. Our success in thousands of worldwide installations is based on PST's unique selection of moisture measurement technologies that enable our customers to measure always using the best analyzer for their specific application and budget. The fundamental chilledmirror-based hydrocarbon dew-point analyzers and dew-point testers provide essential quality measurements for natural gas at custody transfer helping pipeline operators to avoid costly and reputation-damaging custody transfer disputes. All process analyzers are globally certified for use in hazardous areas (ATEX, IECEx, cQPCus) and will be delivered with either standard or customized sampling systems.

- TDLAS fast response moisture analyzers for changing gas streams
- Quartz crystal microbalance, ppb-level moisture analyzers
- Metal oxide sensor hygrometers
- Online and portable hydrocarbon dew-point analyzers





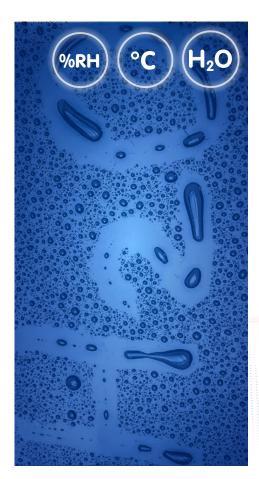
Process moisture analyzer – Michell QMA601

Portable dew-point tester - Michell CDP301



Humidity and temperature transmitter – Rotronic HF5





Humidity and Temperature Measurement

Relative humidity is a measure of the amount of water vapor present and together with the temperature measurement is vital to ensure product quality and process safety in many industries and applications. Our precision humidity and temperature products became an industry benchmark for monitoring and control of environmental and process conditions across the most demanding applications including explosive atmospheres as well as in the food and pharma industry, where the measurements are strictly regulated to comply with the FDA and GxP. At the heart of every relative humidity product made in our swiss factory is our high-precision, ultra-stable capacitive sensor. Combined with the temperature measurement most of our humidity instruments can also display a range of calculated humidity values such as dew-point or mixing ratio (g/kg).

- Probes & sensors
- Transmitters & data loggers
- Handheld instruments
- Humidity and temperature calibration systems
- Real-Time online monitoring systems





Water Activity Measurement

The measurement of the 'free' or available water in any product affects product quality and shelf-life. This is particularly crucial in the pharmaceutical, food and cosmetics industries which are highly regulated. If there is too much water in a product, there is a risk of microbial growth and water migration. This can lead to clumping, changes in consistency or taste, diminution of nutrients or effect product value, as well as reduced storage and shelf-life. We offer a wide range of instruments for the measurement of water activity (aw). Small and large sample holders and liners are available for all product types including expensive medicinal liquids. Our water activity analyzers can produce accurate and repeatable measurements of aw together with temperature in typically less than five minutes for most product samples, the equilibrium method is also available. Insertion probes can be used for bagged products.

- High-end temperature-stabilized analyzer
- Touchscreen analyzer with remote access
- Bluetooth measurement heads
- Aw probes



Bluetooth measurement head – Rotronic AWEasy

Benchtop laboratory device – Rotronic HygroLab

Water activity meter – Rotronic AWTherm





Real-Time Monitoring Solutions – Flexible and Configurable Environmental Monitoring

PST Real-time monitoring systems (RMS) are designed to assist customers in achieving compliance in regulated applications. Monitoring anything from temperature, relative humidity and other environmental parameters that PST can offer. The PST RMS offers a range of installation possibilities with both public and exclusive SaaS solutions, on-premise or directly with a server provided and monitored by PST. Our systems ensure data integrity and are FDA 21 CFR Part 11 and EU Annex 11 compliant.

PST Monitoring Brands:

- Isensix
- Rotronic
- SensoScientific



Datalogger – Isensix Guardian

Rotronic RMS Hard- and Software

Datalogger & Probe - SensoScientific



Sensors

Process Sensing Technologies offers a wide range of sensors and technologies to suit various applications in environmental, energy, HVAC, healthcare & medical, pharmaceutical, cosmetics & food, beverage, diving, agtech, industrial and transportation markets. Our robust and versatile sensors are designed and manufactured to provide the highest quality, performance and reliability. From compact galvanic electrochemical, nondispersive infrared, and photoluminescence optical sensors to robust stainless steel zirconia and liquid level sensors, we have a solution to meet your requirements. With millions of sensors installed throughout the world in a wide range of markets measuring environmental paramaters and monitoring processes that protect people and property, ensure compliance to standards, and optimize and maximize profitability, Process Sensing Technologies is uniquely positioned to support your sensing needs.

- Industrial oxygen sensors
- Industrial safety sensors
- Liquid level sensors
- Medical & diving sensors
- Refrigerant A2L sensors









Nondispersive infrared sensors – Dvnament Platinum Series

Optical O_sensors - SST LuminOX sensors – AII

Galvanic electrochemical Liquid level switch – SST Optomax

Zirconium Dioxide O₂sensor – SST Screwfit

Axin





Oxygen Measurement

Precise oxygen measurement is critical for processes in many industries, ranging from the purity of industrial gases and protecting against leaks in glove boxes to monitoring flue gas for optimum combustion efficiency. The requirements of various applications are very different, but the key driving factors are the same: safety, quality, efficiency or legislation. Therefore, we offer a range of high purity oxygen analyzers and oxygen measurement devices to ensure that you can always select the best technology for your application.



Portable O, analyzer – AII GPR-1200/3500

O2 analyzer – Michell XTP601-EX

Compact oxygen transmitter – SenzTx



Hydrogen, Binary, Toxic & Flammable Gases

Our range of thermal, conductivity-based gas analyzers measure and monitor hydrogen and other binary gas streams. The XTC601-EX from Michell Instruments is ideal for measurements in safety critical process applications and meets the requirements of IEC61508 SIL2. Ldetek offers thermal conductivity-based gas analyzers to measure and monitor binary gas streams. The technology can also monitor one component in a more complex gas mixture when the background gases have the same ratio to each other or have similar thermal conductivity values. The product offering utilizes a variety of sensing technologies including non-dispersive infrared, catalytic bead, and electrochemical sensing methods to ensure the best fit for the application including non-dispersive infrared, catalytic bead, and electrochemical sensing methods.

- H₂ & binary gas analyzers
- H₂S analyzers
- Toxic, oxygen and flammable gas detectors







Thermal conductivity analyzer – Michell XTC501 O₂analyzer – Michell XTC 601-EX





Gas Chromatographs and Online Analysers for **Trace Impurity Measurements**

Our LD800x online gas analyzers help to measure trace impurities in applications where gas purity must be controlled. The new modular, plug and play, MultiDetek series industrial gas chromatographs allow the detection of multiple impurities using a selection of our cutting-edge sensing technologies as listed below. All detectors can be tailored to the application and combined in one process GC incorporating the functionality of two GCs into one instrument and enabling measurements in a wide range of background gases including helium, argon, nitrogen, oxygen and hydrogen or carbon dioxide. 19" cabinet packaged system solutions with sample conditioning and latest generation of indispensable accessories for noble gas purification, gas blending and multi-gas stream selection are also available. Available detection technologies include:

- Plasma emission detector (PED)
- Flame ionisation detector (FID)
- Thermal conductivity detector (TCD)
- Quartz crystal microbalance (QCM)
- Solid state electrolyte (SSE)





and Ar – LDetek LD8000 MultiGas

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Calibration Services

Calibration of humidity, temperature and trace moisture measurement equipment is crucial to maintain confidence in the readings essential for monitoring your processes and ensuring safe and efficient operation of your business. Based on the unparalleled history of our leading humidity calibration equipment manufacturers Michell and Rotronic, self-governance and our technical capabilities with a full line of reference measurement instruments we provide the most comprehensive humidity, and dew-point calibration offering on the market today.

- Humidity & temperature calibration at a PST laboratory
- Dew-Point calibration at a PST laboratory
- On-site Humidity & temperature calibration
- Self calibration equipment



Humidity aenerator – Rotronic HvaroGen2. Chilled mirror - Michell S8000 Remote



Humidity validator – Rotronic HygroCal 100, Chilled mirror hygrometer – Michell Optidew 401, Handheld device – Rotronic HP32



PST

Services we offer

Calibration

- RH & temperature calibration at a PST laboratory
- Dew-Point calibration at a PST laboratory
- On-site humidity calibration
- Self-calibration

Lifecycle & Maintenance

- Esidew transmitter exchange
- Maintenance agreements
- Serviceable parts for hazardous areas
- Rental services from Michell and LDetek

GxP Services

- Validation
- Mapping
- Other services for GxP regulated applications

Engineering Services

- System engineering services
- Product customization
- Project planning

Where we are

PST has a global network of sales, service and support teams that work closely with customers to deliver application specific products from our brands and operational centers of excellence.

Our Culture

We bring complementary businesses together. With our success and growth, our culture is continuously evolving, taking the best and learning from each new business that joins PST. It is based on staying open-minded, diverse, and welcoming to new ideas while keeping the spirit of what made our businesses successful in the markets they serve.

Our Values

Dedication to Knowledge

Our deep expertise will fit the solution to the application.

Trusted Experts

We deliver high precision and high-quality solutions for our customers.

Innovative and Agile

We strive for continuous improvement.

Pioneering Spirit

We don't ignore niches, help industry disruptors innovate.

Collaborative and Inclusive

We believe in the power of our people and teams around the world working together.

Integrity

We do what we say we will do.

