Close up of the Vaisala Multiparameter Transmitter DPT145 sensor head shows the combined dew point and pressure sensors.

Unique New Multiparameter Transmitters for Online Monitoring of SF6 Insulation and Compressed Air

Vaisala has introduced two new transmitters for monitoring multiple parameters simultaneously in applications using SF6 insulation or compressed air.

The Vaisala Multiparameter Transmitter DPT145 combines online dew point monitoring with pressure measurement to assess the condition of SF6 insulation continuously and in real-time in high voltage equipment. In addition, it measures temperature, and provides calculated values for density, normalized pressure, dew point in atmospheric pressure and ppm.

Sulphur hexafluoride (SF6) is used as an insulating gas in transmission and distribution equipment such as switchgears and circuit breakers to prevent arcing during switch-offs and to protect equipment from failures. The direct normalized pressure measurement of the Vaisala DPT145 detects leakages immediately, while online dew point measurement provides early warning on moisture issues, which affect the insulating properties of the gas and cause rapid deterioration.

Thanks to the multiparameter monitoring, fewer mechanical connections are needed, which reduces the risk of leakages. Online monitoring is also environmentally friendly as it removes the need for sampling and ensures that no SF6 gas is released into the atmosphere.

The Vaisala Dewpoint and Pressure Transmitter DPT146 for Compressed Air monitors both dew point and process pressure simultaneously, creating the ideal tool for anyone in need of high quality compressed air.

For the first time, dew point data is constantly pressure compensated online and in real-time, which means that separate conversions are no longer needed to take possible changes in pressure into account. It also means that no ambiguity exists in the information, making the data reliable and accurate, and consequently, enabling more informative decision making and timely corrective actions. Regulative requirements, for example for medical gas, can also be fulfilled quickly and conveniently.

Further information:
www.vaisala.com/dpt145
www.vaisala.com/dpt146

Vaisala Dewpoint and Pressure Transmitter DPT146 for Compressed Air

Humidity Seminar Series Continues in Europe

Vaisala's highly popular humidity seminars continue. The next two European sessions will be held in Isernhagen, Germany on November 9th, and in Lille, France on November 17th.

During the 1-day seminars the participants will learn all there is to know about humidity and the related measurements. The seminars cover the theory of humidity measurements, selection criteria for appropriate measurement instruments, issues of installation and maintenance as well as an introduction to the solutions Vaisala offers.

The seminars are free of charge. However, seats are limited and managed on a first come, first served basis.

Further information:
www.vaisala.de/feuchteseminar
www.vaisala.fr/seminairehumidite

Vaisala Weather Radar Certified for Aviation Weather Forecasting in Russia

Russia's Interstate Aviation Committee (IAC) has granted Vaisala's dual polarization weather radar (Vaisala Weather Radar WRM200) a certificate that allows it to be used in the field of aviation in Russia. A type certificate issued by the IAC Commission on Certification of Aerodromes and Equipment is a prerequisite for the admission of a new type of equipment for use at Russian airports.

The Interstate Aviation Committee was formed on the basis of the Intergovernmental Agreement on Civil Aviation and Air Space Use. In the past 14 years, it has certified many types of meteorological equipment developed by Vaisala. Currently the participants of the Agreement are Armenia, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russian Federation, Tadjikistan, Turkmenistan, Uzbekistan and Ukraine.

2-Year Warranty for all Industrial Instruments

Vaisala now grants two-year warranty coverage for all of its industrial instruments (humidity, dew point, moisture in oil, pressure, and carbone dioxide meters and transmitters). The extended warranty is valid as of 1 July 2011 with backwards compatibility, i.e. instruments sold one year ago will be covered for an additional year. The full 24-month warranty period also applies to Vaisala Veriteq data loggers.

In general, Vaisala products and services are protected by 12-month warranty coverage as the standard minimum, during which time products will be repaired or, where required, replaced free of charge. Vaisala issues a guarantee for the material and workmanship of products under normal operating conditions.

New warranty conditions are available online:
www.vaisala.com/en/services/maintenance/

Vaisala Humidity Calculator Available as an iPhone App

Vaisala Humidity Calculator is now available as an App for the iPhone. The all new, all free App is ready for downloading at the iTunes App Store.

The App offers the same functionality as the online calculator, allowing the user to calculate several humidity parameters from one known value. Unit conversions can now be made on the fly to see the effects of changing ambient conditions, like temperature and pressure. Calculate or convert relative humidity, dew point/frostpoint, absolute humidity, water content, mixing ratio, vapor pressure, parts per million, and wet bulb temperature.

The Calculator App runs on the iPad as well, but it's not optimized for the device. The online Humidity Calculator is available at www.vaisala.com/humiditycalculator.

Finnish Engineering Award to Vaisala's Weather Radar Development Team

Vaisala's weather radar development team received the Finnish Engineering Award 2011 for developing and productizing Vaisala's dual polarization Doppler weather radar. The 25,000 euro Award was announced in Helsinki in June.

The awarded team – Pentti Karhunen, Henry Andersson, Petri Haapanen, Reino Keränen, Timo Lyly, Juha Salmivaara and Rainer Sanmark – was instrumental in developing and productizing Vaisala's weather radar between 2002 and 2008. The new radar was the first of its kind in the world in that it was designed from scratch to provide dual polarization capability. The radar was commercially launched in 2007.

The winning team worked on the weather radar development in close collaboration. Pentti Karhunen was responsible for concept design and leading the project, Henry Andersson for RF and automation design, Rainer Sanmark for antenna and pedestal mechanics, Reino Keränen for algorithm and software development, Petri Haapanen for transmitter integration, Timo Lyly for RF receiver design and processor integration, and Juha Salmivaara for antenna integration and system testing.

In addition, extensive research collaboration was carried out with Colorado State University, University of Helsinki and the Finnish Meteorological Institute, for example, in developing dual polarization applications.

The Finnish Engineering Award is presented by the Finnish Association of Graduate Engineers TEK and the Tekniska Föreningen i Finland TFiF. The Award is granted annually to a person or team that has made significant contribution to Finnish technological expertise. The award-winning engineering work may be characterized by an element of creativity, originality, or by practical implementation of the idea or theory in question. The work's commercial and economic aspects are also considered.

The Finnish Engineering Award was granted for the first time in 1981. Two other Vaisala-related innovations have won the Award in the past: Ilkka Ikonen was awarded for radiosonde ground station software in 1982, and Heikki Kuisma for the development of micro-mechanical silicon capacitive sensors in 1993.

Vaisala's Weather Businesses Combined

Vaisala's Meteorology and Weather Critical Operations business areas were combined to form one Weather business area starting October 1st. The change is mostly organizational, and won't affect Vaisala's position at the forefront in providing leading weather observation and measurement systems and services for both meteorological and weather-dependent customers.

"The new Weather business area continues to be a leading provider of reliable weather technology. Going forward, our goal is to offer increased operational benefit for our customers by improving our capabilities in the project business and by introducing new service-based business models," says Kai Konola, who used to head the Weather Critical Operations business area. He moves on to lead the new Weather business area, while former head of the Meteorology business area Martti Husu takes on a new position in Vaisala.

Changes in Vaisala's Management

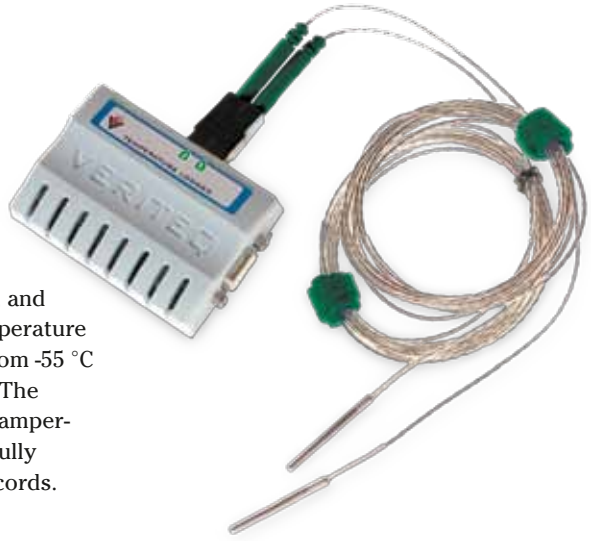
Kaarina Muurinen, M.Sc. (Econ.), has been appointed Vaisala's Chief Financial Officer and a member of Vaisala's Business and Strategic Management Groups. She joins Vaisala from Nokia, where she has worked for thirteen years in various global finance and control senior management positions, most recently as Vice President, Finance & Control for Demand Supply Network Management and Sourcing.

In addition, Vaisala's Director of Marketing, Riina Kirmanen, has been appointed a member of the company's Strategic Management Group. The aim of the appointment is to further strengthen the implementation of Vaisala's customer driven strategy.

Kaarinen Muurinen, Chief Financial Officer

Riina Kirmanen, Director of Marketing

New Data Recorders for Low Temperature Mapping & Monitoring



Vaisala has launched a new solution for low temperature validation/mapping and critical monitoring applications – the Vaisala Veriteq Low Temperature Data Recorder Series 1200. Equipped with large onboard memory and a 10-year battery, the palm-sized 1200 series of data loggers render temperature data immune to power failures and network interruptions.

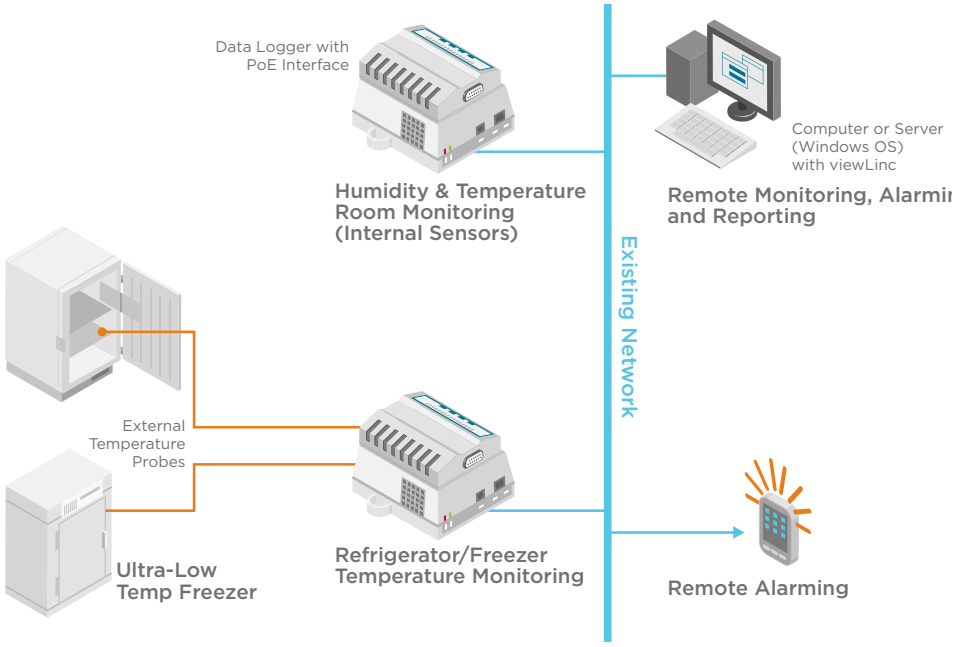
Each logger has up to two channels, either two probes 25' in length, or one internal sensor with one probe. The high-stability sensors provide reliable in-calibration performance and come with NIST-traceable, A2LA accredited calibration, and are ideal for in situ cold temperature validation and monitoring from -55 °C to +40 °C (-67 °F to +104 °F). The series provides robust and tamper-proof operation for secure, fully 21 CFR Part 11 compliant records.

Further information:
www.vaisala.com/lifescience-hitech

New Multilingual and Interoperable Software for Continuous Monitoring in Critical Environments

Vaisala's Continuous Monitoring System (CMS) software is now available in several language versions: English, German, French, and Chinese. In addition, the latest build of the software — Vaisala Veriteq viewLinc version 3.6 — features interoperability with the Vaisala 300 series of transmitters, providing easy access to live trend and historical data from any standard web browser.

Ideal for both large-scale systems and standalone applications, viewLinc integrates with existing networks, eliminating the cost of installing and maintaining a dedicated network for a continuous monitoring system. The software provides monitoring with alarming, real-time data trending, secure audit trail as well as Part 11 compliant records for temperature, humidity, pressure, and CO_2, for example.



For further information, watch our demo on YouTube, or visit www.vaisala.com/lifescience-hitech.

Vaisala Most Responsible Summer Job Employer 2011

Vaisala has been chosen Finland's Most Responsible Summer Job Employer together with Särkänniemi Adventure Park and YIT, a building systems and construction company. The winners were highlighted from over 70 organizations participating in the Responsible Summer Job 2011 campaign organized by the Finnish Children and Youth Foundation and Alma Media.

Kicked off in the beginning of 2011, the campaign aimed to encourage employers to offer more and better summer jobs. The winners were chosen by a jury, based on evaluations given by summer workers in the organizations. The top three excelled in treating the summer workers fairly and integrating them in the work place as full team members, in particular.

Around 40 summer workers worked for Vaisala in 2011, 23 of those within the annual Vaisala Giant Leap Internship Program. The program, targeted at students who actively pursue a university level degree, has established itself as one of the top internship programs in Finland.

"Challenging and interesting work with real issues and real development projects. Managers and colleagues give you responsibility and trust you to do a good job. My best summer job so far!" – Feedback to Vaisala from the competition

Upcoming Industry Events

ITS World Congress - ITS America
Orlando, FL, USA

Meteorological Technology World Expo
Brussels, Belgium

A3P Congress
Biarritz, France

Interphex Puerto Rico
San Juan, Puerto Rico

WCRP OSC Climate Research in Service to Society
Denver, CO, USA

4th Workshop on Best Practices in Short Term Forecasting for Wind Energy
Arhus, Denmark

RenewableUK
Manchester, UK

Automotive Testing Expo
Novi, MI, USA

Vaisala Humidity 201 Seminar
Toronto, ON, Canada

Vaisala cGMP 201 Seminar
Toronto, ON, Canada

ISPE Annual Meeting
Dallas, TX, USA

Europort
Rotterdam, The Netherlands

Vaisala Humidity Seminar
Hannover, Germany

FALLS Annual Users Group Meeting
Tucson, AZ, USA

Tema RenRum / Theme Cleanroom
Stockholm, Sweden

Vaisala Humidity Seminar
Lille, France

XIX Simpósio Brasileiro de Recursos Hídricos
Maceió, Brazil

AMS 2012
New Orleans, LA, USA

Full list is available at
www.vaisala.com/events