New Wireless Temperature and Humidity Transmitter Features Fastest, Simplest Installation Ever

Recently launched wireless version of Vaisala’s Continuous Monitoring System allows secure monitoring, alarming and reporting of temperature, relative humidity, CO₂, differential pressure, contacts and other critical parameters in life science applications. The Vaisala HUMICAP® Wireless Humidity and Temperature Transmitter HMT140 uses Wi-Fi to connect to any existing network.

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“With the Vaisala HMT140, the sensor, memory, power and transmitter are all within a compact enclosure, making the system much easier and cost-effective to install and manage. With wireless networking quickly becoming the preferred mode of connectivity, this solution is a timely addition to our existing connectivity options.”

The built-in transmitter communicates directly with the user’s existing network, eliminating the need to purchase and install extra transmitters when installing a new sensor. Nor is there any need to install and maintain a dedicated network, which significantly reduces the costs of installation when compared to other similar systems. The on-board memory provides point-of-measurement recording so that data remains protected from loss in case of a power failure or network downtime.

The Vaisala HUMICAP® Wireless Humidity and Temperature Transmitter HMT140 can be used in warehouses, freezer and cryogenic farms, laboratories, blood banks and many other life science applications. It has an IP65 rated enclosure, which makes it optimal for cleanroom environments.

The Vaisala Continuous Monitoring System ensures that GxP environments and processes are properly monitored, continuously alarmed and supported by secure, 21 Part 11-compliant reports. With its real-time trending and multi-stage alarming capabilities, the CMS helps facilities avoid costs associated with ruined or adulterated products from out-of-specification conditions by quickly alerting personnel when condition trends indicate possible malfunction.

Further information:
www.vaisala.com/HMT140
New Family of Humidity and Temperature Transmitters for HVAC Applications

Vaisala INTERCAP® Humidity and Temperature Transmitter Series HMDW80 is a complete set for collecting the basic humidity and temperature information needed for a variety of heating, ventilation and air-conditioning applications.

Combining top quality with affordable price, the new transmitters are optimized for reliable operation and easy installation with very little maintenance. The excellent stability of the INTERCAP® sensor ensures reliable measurement with minimal maintenance, and if needed, the sensor can be easily exchanged on location with practically no downtime at all.

The versatile Vaisala HMDW80 series includes basic transmitters for walls and ventilation ducts, IP65-classified instruments for wash-down areas and other humid spaces as well as transmitters with a radiation shield for outdoor use. The series also contains transmitters that measure temperature only as well as transmitters with an optional display, and also provides calculated humidity parameters of dew point, wet bulb and enthalpy in addition to the direct output parameters.

Further information: www.vaisala.com/HMDW80

Instruments Catalog Available

Vaisala’s industrial product catalog was again published during the winter. The catalog presents Vaisala’s instruments for measuring humidity, temperature, dew point, moisture in oil, carbon dioxide, pressure and different weather parameters for a wide range of industrial applications from compressed air and power transmission to metrology and HVAC.

In addition, the catalog introduces the proprietary sensor technologies on which Vaisala’s products are built, such as HUMICAP® for relative humidity and BAROCAP® for pressure measurement.

Download your copy at www.vaisala.com/industrialcatalog
Vaisala Increased Its CDP Standing

The pressure for companies to report on their risk management and aversion concerning climate change is clearly increasing. One group of stakeholders pushing companies forward is the international financial community. An increasing amount of investors monitor companies’ economic, social and governance performance as well as risk management practices concerning the effects and opportunities of climate change.

To bring much needed knowledge on the effects of climate change on businesses, the Carbon Disclosure Project (CDP) collects greenhouse gas emissions data and risk assessments from companies to form an extensive database for investors. This information is used for instance as a criteria in financial indices, company evaluations, and portfolios limited to responsible investments.

Vaisala has been responding to the CDP investor questionnaire for three consecutive years. This time around we also responded to the Supply Chain questionnaire for the first time as this was requested by one of our longstanding customers.

Vaisala received a score of 74 points, which showed clear improvement to previous years and was higher than the Nordic average of 69 points. We believe that increasing our transparency towards our stakeholders by reporting on our sustainability policies and actual data serves us, our customers and investors in the long run.

More information about the CDP, see http://www.cdproject.net/


Vaisala’s annual reports were published in March and remain available for ordering. Printed copies of the Corporate Responsibility Report and the Financial Statements can be ordered at www.vaisala.com/publications. Both are also available as PDFs on Vaisala’s website.

The online Annual Report is available at www.vaisala.com/annualreport. The online version of the Corporate Responsibility Report can be accessed at www.vaisala.com/sustainability.
Series of Lightning Webinars

Vaisala organizes a series of educational webinars about the various aspects of lightning as a phenomenon and the intricacies of its detection. Webinar topics range from general lightning related information to specific technological or application related issues.

The next webinar will take place on August 27, and it will discuss the uses of lightning data in energy and transmission system applications. Later topics are meteorological applications of lightning data and lightning safety; cloud lightning discharges and their detection; and applications of lightning data in defense. All earlier webinars are available as recordings.

The webinars are directed to all professionals who deal with lightning sensitive equipment or environments like airports, energy industry, meteorological services, and the insurance sector whether they are in need of lightning detection data, responsible for safety issues or just interested in lightning and its detection in general. Speakers include both Vaisala’s own scientists as well as outside experts.

Save the Date! 2014 ILDC/ILMC in Tucson, AZ

Vaisala is pleased to announce the dates and location of the 2014 ILDC/ILMC. Join us 18-19 March 2014 for the 23rd International Lightning Detection Conference (ILDC) and 20-21 March 2014 for the 5th International Lightning Meteorology Conference (ILMC). Both conferences will be held in Tucson, Arizona in the United States.

The ILDC/ILMC is a scientific conference focused on lightning. Organized every other year, the conference provides a forum for global discussion of lightning physics, research findings, lightning network performance and innovations in lightning technology. Topics range from global to local lightning detection, and the impact of real-time uses of lightning data on society, such as electric power distribution and transmission and telecommunications performance.

Further information: www.vaisala.com/events

The series continues throughout 2013 - for details, dates and registration go to www.vaisala.com/lightningwebinars.
AMS Editor’s Award 2012 to Evan Ruzanski

Every year, the Council of the American Meteorological Society (AMS) gives various awards to individuals for their outstanding achievement in meteorology or contribution to the Society. Last year the AMS Journal of Atmospheric and Oceanic Technology Editor’s Award was given to Vaisala’s Evan Ruzanski.

The award recognized Dr. Ruzanski’s outstanding contribution, as a referee, to maintain high quality of the journal by providing insightful, high quality, and prompt reviews of many papers. Dr. Ruzanski is known for his excellence in radar technology both within Vaisala and the scientific community.

Vaisala HM40 – Compact, Versatile, Hand-Held

Vaisala HUMICAP® Hand-Held Humidity and Temperature Meter HM40 is now available as both standard and remote probe models. The remote probe alternative further increases the meter’s versatility by enabling convenient measurements in ducts and other difficult-to-reach or confined places.

Other features, including an interchangeable Vaisala HMP113 measurement probe, make the Vaisala HM40 an ideal spot-checking tool for a wide range of portable humidity measurement needs from construction sites and HVAC applications to laboratories and cleanrooms.

Compact, simple and easy to use, the Vaisala HM40 provides reliable measurement results in various environmental conditions. Its humidity measurement is of the same Vaisala HUMICAP® sensor technology that landed on Mars last summer on board the Curiosity Rover, which speaks for the sensor’s excellence in terms of long-term stability and its ability to cope with chemical interference.

In addition to a wide measurement range for relative humidity and temperature, the Vaisala HUMICAP® Hand-Held Humidity and Temperature Meter HM40 provides calculated quantities for five other humidity parameters. Its user interface was designed to be as simple and intuitive to use as possible with 10 different language choices and a possibility to modify settings to suit individual needs. Large graphic display and robust push buttons increase the usability further, making operating the device easy in any conditions.

Further information: www.vaisala.com/HM40
Vaisala HMP155 with a Warmed Probe Option for Meteorological Measurements

Vaisala’s patented warmed probe measuring technique ensures reliable humidity measurement in high humidity conditions where fast changes in ambient temperature and dew formation can cause serious errors in the relative humidity measurement.

The probe head, that incorporates the humidity and temperature sensors, is warmed above the ambient temperature by an integral heater element. This prevents formation of dew or frost on the humidity sensor and thus prevents super-saturated conditions where conventional sensors become ‘blind’ due to moisture sublimation on the sensor element.

Application areas for the Vaisala HUMICAP® Humidity and Temperature Probe HMP155 with a warmed probe are meteorological sites with a risk of high humidity conditions, such as coastal and maritime environments, tropical areas, and high altitudes.

Further information: www.vaisala.com/HMP155

ICLP 2012 Young Scientist Award to Amitabh Nag

The 2012 International Conference on Lightning Protection (ICLP) awarded Vaisala’s Amitabh Nag with a Young Scientist Award. ICLP is considered the most prestigious scientific conference in the field of physics of lightning discharges and lightning protection.

The Young Scientist Awards are given every two years at the ICLP for scientists under the age of 35 who have delivered an oral or poster presentation of high quality at the conference, and have made notable contributions in the field of lightning research and lightning protection.

Dr. Amitabh Nag was awarded for his paper regarding NLDN estimate of peak current for positive flashes, and for his contributions as a session organizer and chairman. The winning paper was co-authored by Dr. Vladimir A. Rakov and Dr. Kenneth L. Cummings.
Latest Version of Vaisala Continuous Monitoring System Software Fully Supported in 6 Languages

As the heart of the Vaisala Continuous Monitoring System (CMS), viewLinc software provides alarming, real-time trending, and 21 CFR Part 11-compliant records for critical parameters in life science environments. Together with Vaisala’s sensing technology, the user-friendly software helps highly demanding controlled environments in the pharmaceutical and biotechnology industries meet regulatory requirements and ensure against product loss or adulteration.

The latest build of the viewLinc software, version 4.1, offers an optimized mobile interface for remote monitoring and alarm management. Along with the location-based and new time-zone specific reporting, viewLinc is localized for five new languages.

“Like its predecessors, Vaisala viewLinc 4.1 is easily deployed for monitoring temperature, relative humidity, CO₂, differential pressure, level, door switches, and more,” says Jon Aldous, Vaisala’s Life Science Product Manager. “But for 4.1 we localized the software, the IQ/OQ, and all the user documentation in German, French, Swedish, Chinese and Japanese. Users can now generate reports based on the time zone of the reporting location or the monitoring location, which makes the system truly global in function.”

Other key features of Vaisala viewLinc 4.1 include a greatly enhanced user interface that is easier to navigate, more customization capabilities in historical reports, and live multiple-channel trend display for enhanced reporting. The improved user interface facilitates easy access to product data in a more familiar Windows-type navigation. In addition, it shows data by location, which allows users to easily find their loggers, swap out devices, and report data by location. With the mobile interface, users can acknowledge and pause alarms, view live trends on any monitored location under their control, and view trend data in real-time.

Further information: www.vaisala.com/viewLinc

Battery Powered Wireless Transmitter
802.11 b or g

Computer (Server) with Windows OS + viewLinc software

Remote Alarming via cell phone

Existing Network

Temperature/RH Data Loggers + Multi-port Ethernet Interface (PoE also available, no power outlet needed)

Direct to PC via USB

Analog Device, such as: CO₂ & O₂ ; Differential Pressure; Particle Monitoring, etc. + Data Logger with PoE Interface
Ultrasonic Wind Sensor Webinars Continue in September

Vaisala is conducting a webinar series on using ultrasonic wind sensors for wind energy applications. The sessions discuss ultrasonic wind sensor technology in general, how it compares to mechanical wind sensor technology, and what practical applications there are for using ultrasonic sensors in the field.

The third webinar in the series, “Incorporating Ultrasonic Wind Sensors into Existing Weather Networks” will take place on 18 September, and the fourth, “Best Practices for Cold Climate Wind Monitoring” on 19 November. Two earlier sessions are available as recordings.

Further information: www.vaisala.com/webinars

Non-Weather Road Transportation Product Lines Divested

Vaisala’s non-weather road transportation product lines have been divested to M.H. Corbin, Inc. M.H. Corbin is a well-established US-based distributor with offices in Ohio, Pennsylvania, West Virginia and New York. The company is a long-lasting distributor of all Vaisala’s road offering including the divested product lines.

“We are especially pleased that M.H. Corbin continues to serve our customers. They are experienced and knowledgeable about the business and the products in question. This will ensure that the customers are well taken care of in the future”, stated Antero Järvinen, Director of Vaisala’s Roads and Rail business.

The decision was made to allow Vaisala to focus on road weather product offering, development of decision support systems, and related services. The divested product lines are: a distance measuring instrument which measures the exact linear distance travelled by a vehicle; a portable traffic data analyzer, which provides data such as the number of vehicles, speed of the vehicles and length classifications for short-term studies; and highway advisory radio systems which provide real-time information to motorists via AM radio signal.
Upcoming Events

Industry Events

National Conference of Standards Laboratories (NCSL)
Nashville, TN, USA

Offshore Europe
Aberdeen, Scotland

Russian “ROAD-2013” Exhibition
Moscow, Russia

Cold Comfort 2013
Manchester, UK

Analitica Latin America
Sao Paulo, Brazil

NASAO
Sioux Falls, SD, USA

Automaatio 2013
Helsinki, Finland

AATB
National Harbor, MD, USA

CanWEA 2013
Toronto, Ontario

Mesurexpovision
Paris, France

AABB/CTTXPO
Denver, CO, USA

A3P
Biarritz, France

ITS World Congress 2013
Tokyo, Japan

Euro TechCon 2013
Glasgow, UK

ISPE Annual Meeting
Washington, DC; USA

ISA Brazil
Sao Paulo, Brazil

RenewableUK
Birmingham, UK

LabTechnology 2013
Utrecht, the Netherlands

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

Vaisala Webinars

Planning for the Storm (Road Weather)
August 8

Best Practices in Humidity Measurement
August 21

Energy and Transmission System Applications of Lightning Data
August 27

Building Your Plan (Road Weather)
September 10

How to Validate Your Monitoring System Software
September 12

Incorporating Ultrasonic Wind Sensors into Existing Weather Networks
September 18

Meteorological Applications of Lightning Data and Lightning Safety
September 24

Calibration of the Humidity Instrument
September 25

How to Choose a Hygrometer
October 16

Friction vs Freeze Point (Road Weather)
October 22

Cloud Lightning Discharges and Their Detection, Total Lightning
October 29

Maintaining a GMP system
November 7

Dew Point in Compressed Air
November 13

Best Practices for Cold Climate Wind Monitoring
November 19

Applications of Lightning Data in Defense
November 26

Details, registration and recordings of earlier webinars at www.vaisala.com/webinars