

Vaisala Vaisala DRYCAP® Sensor Technology for Industrial Dew Point Measurement



In 1997, the Vaisala DRYCAP® Sensor – a new type of dew point sensor was introduced to the markets. It combines the proven characteristics of polymer sensors with a far wider operating range. DRYCAP® products can be used in very dry environments, and in temperatures up to +350 °C (+662 °F).

Patented auto-calibration method

Vaisala's patented auto-calibration method is used to improve the measurement stability in low dew points. During the auto-calibration procedure, the DRYCAP® sensor is heated and the humidity and temperature readings are monitored as it cools down to ambient temperature. This data is analyzed, and any possible drift is then corrected automatically by the microprocessor. As a result the accuracy of the DRYCAP® sensor is better than ± 2 °C (± 3.6 °F) – down to low dew points. The accuracy lasts for years in typical applications, reducing maintenance need and overall lifetime cost.

Features/Benefits

- Vaisala DRYCAP® Sensor - thin-film polymer sensor for dew point measurement
- Accuracy ± 2 °C (± 3.6 °F)
- Auto-calibration method for excellent long-term stability in low dewpoints
- Fast response time
- Withstands condensation

Withstands condensation

The Vaisala DRYCAP® Sensor withstands condensation, making it unmatched for applications that experience process water spikes, such as condensation in the pipeline during system failure or startup. Also, the excellent chemical tolerance of the sensor makes it suitable for use in a wide variety of demanding environments.



Vaisala DRYCAP® Sensors.

Applications

Vaisala offers DRYCAP® based dew point products for a variety of applications where accurate and stable monitoring of dry conditions is required.

The Vaisala DRYCAP® dew point product range covers dew point applications from -80 to +80 °C Td, operating temperatures from -40 to +350 °C, and pressure up to 50 bar — depending on product. Product selection consists of fixed dew point transmitters designed for demanding industrial applications, compact and rugged transmitters for dryer applications, truly hand-held dew point meters for spot-checking, and portable sampling systems that enable flexible dew point sampling.



Plastics drying applications.



Dew point monitoring of compressed air.



Metal treatment applications.

VAISALA

For more information, visit www.vaisala.com or contact us at sales@vaisala.com

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