

Endress+Hauser wins Hermes Award

Hannover Messe recognizes the world's first self-calibrating thermometer:
iTHERM TrustSens

Endress+Hauser has been recognized by Hannover Messe with the prestigious Hermes technology award for iTHERM TrustSens, the world's first self-calibrating temperature probe for industrial applications.

The compact thermometer iTHERM TrustSens has been designed especially for hygienic and aseptic applications in the food & beverage and life sciences industries. With automated and fully traceable self-calibration during production, the sensor eliminates the risk of undetected non-conformities, resulting in maximum product safety and process efficiency. The integrated Heartbeat Technology additionally allows for continuous device diagnostics and verification without interruption of the process.

Developers used physics phenomenon

iTHERM TrustSens relies on an integrated reference sensor. The developers used the so-called Curie point physics principle, in which the magnetic properties of a material abruptly change at a specific temperature point. This point is determined for the reference sensor. As soon as the temperature falls below this value, following a steam sterilization for example, the primary sensor calibrates itself against the reference. Since the Curie point remains constant, the reference sensor as a master provides a stable comparison value.

The probe thus calibrates itself each time the system is cleaned or sterilized as is usual in processes in the food & beverage and life science industries. The added value for customers is huge. Large systems often include hundreds of temperature sensors that have to be calibrated several times a year. To date, this has required stopping the process and removing the instruments. iTHERM TrustSens omits that.

Sensor technology for the IIoT

"The award-winning product makes a major contribution to the deployment of the Industrial Internet of Things throughout the process industry," said Jochen Köckler, CEO of Deutsche Messe. The award was presented at the opening of Hannover Messe 2018 in front of many guests, among them Germany's Chancellor Angela Merkel. The Hermes Award is one of the most respected technology contests worldwide and recognizes products and processes characterized by innovation, efficiency and application benefits.

iTHERM TrustSens will be on show at Hannover Messe 2018 (23–27 April 2018) at the Endress+Hauser booth (hall 11, booth C43).

For more information on iTHERM TrustSens technology, please view our video on YouTube:
<https://www.youtube.com/watch?v=zKxuQNABWQI>



EH_trustsens_1.jpg

Industry specialist: Endress+Hauser's iTHERM TrustSens has been designed especially for the food & beverage and life sciences industries.



EH_trustsens_2.jpg

Award-winning: Endress+Hauser iTHERM TrustSens, the world's first self-calibrating thermometer.

The Endress+Hauser Group

Endress+Hauser is a global leader in measurement instrumentation, services and solutions for industrial process engineering. The Group employs more than 13,000 personnel across the globe, generating net sales of over 2.2 billion euros in 2017.

Structure

With dedicated sales centers and a strong network of partners, Endress+Hauser guarantees competent worldwide support. Our production centers in 12 countries meet customers' needs and requirements quickly and effectively. The Group is managed and coordinated by a holding company in Reinach, Switzerland. As a successful family-owned business, Endress+Hauser is set for continued independence and self-reliance.

Products

Endress+Hauser provides sensors, instruments, systems and services for level, flow, pressure and temperature measurement as well as analytics and data acquisition. The company supports customers with automation engineering, logistics and IT services and solutions. Our products set standards in quality and technology.

Industries

We work closely with the chemical, petrochemical, food & beverage, oil & gas, water & wastewater, power & energy, life science, primaries & metal, renewable energies, pulp & paper and shipbuilding industries. Endress+Hauser supports its customers in optimizing their processes in terms of reliability, safety, economic efficiency and environmental impact.

History

Founded in 1953 by Georg H Endress and Ludwig Hauser, Endress+Hauser has been solely owned by the Endress family since 1975. The Group has developed from a specialist in level measurement to a provider of complete solutions for industrial measuring technology and automation, with constant expansion into new territories and markets.

For further information, please visit www.endress.com/media-center or www.endress.com

Contact

Martin Raab
Group Media Spokesperson
Endress+Hauser AG
Kägenstrasse 2
4153 Reinach BL
Switzerland

Email martin.raab@holding.endress.com
Phone +41 61 715 7722
Fax +41 61 715 2888