

First self-calibrating thermometer – iTHERM TrustSens

Endress+Hauser presents the iTHERM TrustSens for maximized product safety and process efficiency by automated inline self-calibrations.

The iTHERM TrustSens hygienic thermometer is for users in the Food and Beverage industries who want 100 % risk elimination in all product safety relevant production steps. This thermometer features unique sensor technology with fully automated inline self-calibration for hygienic and aseptic applications.

The temperature probe's core component is a unit comprising a primary Pt100 temperature sensor and integrated reference. The physical fixed point is based on the Curie temperature and thus guarantees consistently high measuring accuracy. In conjunction with Heartbeat Technology, the iTHERM TrustSens ensures a continuous and fully independent device function test and provides calibration data for seamless documentation. A valid calibration certificate can be printed at any time with a simple mouse-click.

The iTHERM TrustSens TM37x is supplied ex-works with a calibration certificate for the fixed-point reference integrated in the sensor, which ensures the traceability of the calibration chain. Years of extensive load tests over many thousands of cycles, both in the lab and in the field, have confirmed that the solution is well developed.

The iTHERM TrustSens stands out from other thermometers by fully automated inline self-calibration. This results in high product safety and increased plant availability. Continuous inline process verification is already recommended in the "Good Manufacturing Practice Rules" (GMP - Annex 15).

The device also has the following international approvals and certificates: Hygienic guidelines in accordance with EHEDG, ASME BPE, FDA, 3-A, 1935/2004, 2023/2006, 10/2011, CE, CRN, TSE free from animal fat, CSA General Purpose.

For further information on the iTHERM TrustSens TM371 visit www.endress.com/trustsens



Picture: iTHERM TrustSens.jpg

iTHERM TrustSens eliminates the risk of undetected non-conformities

The Endress+Hauser Group

Endress+Hauser is a global leader in measurement instrumentation, services and solutions for industrial process engineering. The Group employs approximately 14,000 personnel across the globe, generating net sales of over 2.4 billion euros in 2018.

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

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