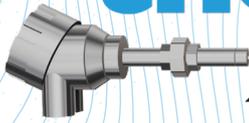




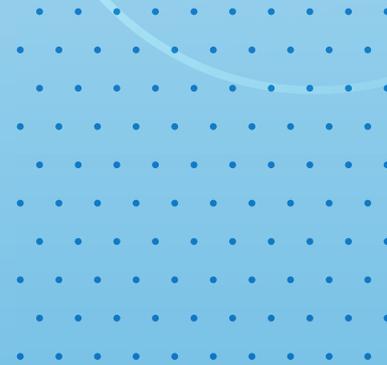
# thermo-electra

SINCE 1962

temperature sensor solutions



**TODAY'S  
INNOVATIONS,  
TOMORROW'S  
STANDARDS**



## About us

### Welcome in the world of Thermo-Electra

Established in 1962, **Thermo-Electra is a third generation family-owned business and one of Europe's leading manufacturing companies** when it comes to designing and building thermocouple and Pt100 temperature sensors for all industries this includes food & beverage, chemicals, pharmaceuticals, glass, oil & gas, power boiler, R&D and paper milling applications. We offer custom designs to suit your exact needs. The sensors are made to Thermo-Electra exacting quality standards. Our welding work is EN3834 Part 2, IIW certified by NIL, and authorized holder of the ASME S-stamp. Thermo-Electra stands ready to address your Temperature measurement needs. **Fast response, quality products, and superb engineering support are our hallmarks.** ATEX and IECEx sensors for hazardous locations. We offer, together with **more than 25 sales channels throughout the world, a reliable partner in production**, with technical support and service.

## In-house services

### From temperature challenge to solution

#### Engineering

with 60 years of experience in the fabrication of temperature sensors and solving your temperature measurement issues.

#### Welding

certified according to ASME BPVC or EN3834-2.

#### Calibration

In our own calibration laboratory from -196°C up to +1200°C, with fully traceable reference temperature sensors and instrumentation.

#### NDT

Non Destructive Testing, like Dye Penetrant or Visual Testing.

#### Hardness Test

on barstock, tubes, pipes and welds.

#### Pressure or leak tests

both externally as internally with fluids or gasses up to 5000bar.

#### PMI/PAMI

Positive (Alloy) Material Identification, on tube/pipe, flanges, barstock and welds with test report.

#### Third party services

Besides our own in-house services, Thermo-Electra also call on the expertise of third-party services like radiographic tests (X-ray) of welds, bores and thermocouples | DT - Destructive Testing, bend, break or tear testing | Calibration according to ISO17025 (RvA, BELAC or UKAS).

## Our markets

### The industries we serve



Oil & Gas



Food & Pharma



Steel & Glass



Boilers



Petro Chemical



R&D & Laboratory



Offshore



Renewable Energy

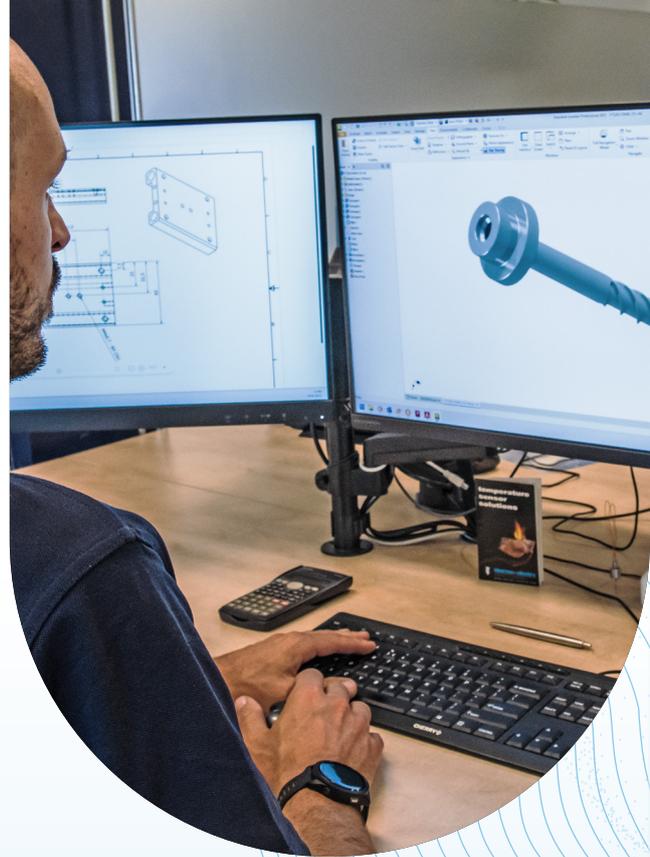
Since 1962

## In-house engineering & producing temperature sensors

At Thermo-Electra, we are **proud of our in-house engineering department**. As innovators in the industry, we deliver cutting-edge temperature solutions designed to excel in the most challenging environments. Combining **deep technical expertise and creative problem-solving**, our engineers are dedicated to pushing the boundaries of what's possible in process control and optimization. Our team works closely with clients to understand their specific challenges and goals, translating these insights into bespoke temperature measurement solutions. By staying at the cutting edge of technological advancements and industry trends, we ensure that our solutions not only meet current requirements but also anticipate future needs.

Whether it's for extreme high or low temperatures, our engineers are adept at designing systems that maintain precise thermal stability, no matter how extreme the environment. Our commitment to innovation, precision, and excellence defines our engineering department and drives our mission to lead the industry in temperature measurement solutions.

**What's your temperature challenge?**



## Specials

Thermo-Electra excels in designing and producing custom temperature solutions tailored to unique industry needs. Our bespoke approach ensures unparalleled accuracy and performance, setting us apart from other companies.



## Hydrogen Sensors

Thermo-Electra has invested in developing advanced temperature sensors for hydrogen applications. Crucial for safe production, transport and storage. Our sensors ensure precise measurements in this demanding industry.



Guaranteed Quality  
**✓ H2 Approved Symbol**

Underlining our high-quality sensors for hydrogen applications.



For more information  
scan the QR-Code.

Our Certificates  
**✓ Officially certified**



Discover more about  
**Our products**



## Multipoint Temperature Sensors

Multipoint temperature sensors with up to 60 points in an 8 mm sheath. Ideal for reactors and tanks, our ATEX/IECEX certified sensors include options for aluminum or stainless steel junction boxes.

## Thermowells

Solid drilled thermowells for high-pressure and velocity applications in materials like SS304/316, Hastelloy, Monel, Titanium, and Inconel, with EN10204-3.1/3.2 certificates and optional coatings.



## ATEX & IECEx certified Temperature sensors

ATEX/IECEX-certified Temperature sensors for hazardous zones, with precision Pt100 or Thermocouple detectors. Our can sensors feature interchangeable inserts, conform to the applicable standards, that can be configured to your needs, for example Pt100 4wire Cl.AA or TC K-IEC Cl.I and can be executed with head mount transmitter.

## Thermocouple and RTD Sensors

Thermocouples and RTD sensors with heat-resistant steel and ceramic tubes for various industries. Certified sensors are ATEX/IECEX compliant, with interchangeable inserts and "DIN" standard models.



## High Temperature Sensors

High-temperature sensors that withstand up to 2000°C. Designed and developed for extreme environments like furnaces and kilns, they ensure precise, reliable temperature measurement. with Thermo-Electra's in house developed double safety and failsafe features for safe when the ceramics are broken.



## Vibration Proof Sensors

Sensors for engines, exhaust gases, and cargo, including Lloyds-approved Temperature sensors. Our vibration-proof designs, such as thermocouples, RTD sensors and protective pockets, ensure reliable performance and easy sensor replacement.

## Handheld Probes

Handheld temperature sensors in thermocouple and Pt100 and Pt1000 models for various measurements. Features include black coiled cables, ABS handles, and customizable options. We offer large-quantity production and quick availability.



## Boiler and Tubeskin

Specialized sensors for accurate boiler and tubeskin temperature monitoring. Our robust thermocouples and RTD sensors ensure efficient and safe operation in high-heat, high-pressure and high-vibration environments.

## Thermocouple and Compensation Cable

Thermocouple and compensation cables for accurate temperature measurement and reliable signal transmission in industrial applications. Also available based on specific requirements.



## Instrumentation

Thermo-Electra offers temperature instruments, calibration equipment, recorders, and explosion-proof calibrators from brands like AOIP and LEYRO. Brands like LEYRO specializes in calibration ovens, and AOIP provides a wide range of lab and field measurement tools.

HQ

The Netherlands



**thermo-electra**

IN-HOUSE  
ENGINEERING

PERSONAL SERVICE &  
TECHNICAL SUPPORT

FAST DELIVERY &  
SUSTAINABLE SOLUTIONS

60+ YEARS  
OF EXPERIENCE

Partners we work with



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