Gas turbine temperature sensors for all applications

Innovative temperature measurement solutions from the global leader

Brand name of Doedijns International B.V.
Doedijns Instrumentation manufactures and supplies gas turbine temperature sensors for a variety of sectors. Our gas turbine temperature sensors are manufactured under the brand name of Thermo Electric.

Gas turbine temperature sensors measure the temperature at different points in a turbine, from the exhaust temperature to the bearing temperature. In order to handle such demanding variations, exhaust gas temperature sensors must be of high quality, extremely robust and reliable.

The Thermo Electric brand has been synonymous with temperature sensors for over 40 years. Our original temperature sensors were designed to specifically measure exhaust gasses from aircraft engines. Today, under the Doedijns Instrumentation group banner, we are proud to remain a major supplier to OEM’s and end users for a complete range of gas turbine temperature sensors.

High grade materials
Our experienced staff are always on hand to assist you with your sensing requirements. We only select the highest grade of materials based on your applications.

Our production procedures and Quality Control System are fully accredited by Lloyds Quality Register and our reputation for consistent excellence in industrial sensor manufacturing speaks for itself.
Gas turbine temperature sensors are manufactured from Mineral Insulated cable. Depending on your application, these can be supplied in various grades of stainless steel and exotic alloys.

Durability and practicality
We offer Thermocouples and Pt100 RTD’s sensors which come in a variety of standard and nonstandard constructions, including vibration proof for demanding applications such as pneumatic compressors and bearing temperature measurement.

We recommend that Mineral Insulated cable is used for Gas turbine applications and we offer this on all of our devices. The durability and practicality of this type of cable allows us to provide specific construction types to suit most applications and processes. All of our Mineral Insulated cable comes with manufacturer batch certificates for traceability purpose.

In-house laboratory tests
For Thermocouple type sensors we offer either grounded or ungrounded end constructions, depending on the type of measurement that is required. Each temperature sensor comes with a standard functional test which is performed by our in-house calibration laboratory.

Our in-house laboratory meets the stringent requirements of ILAC, Corfac, R.v.A. and other international NAMAS certifications.
The superiority of our products is guaranteed by our Total Quality Management System and ISO certificate. Our in-house calibration laboratory meets with the stringent requirements of ILAC, Corfac, R.v.A. and other international NAMAS certifications. This quality guarantee provides additional security and forms the foundation for the leading position of Doedijns Instrumentation as the quality supplier of Thermo Electric temperature measurement solutions with a high level of performance and reliability.

For further detailed product information on our range of temperature sensors and applications in which they can be used, please visit our websites www.doedijns.com / www.thermo-electric.nl or contact one of our sales specialists.

Our customers rely on Thermo Electric branded products because of our experience, reliability and manufacturing excellence. All of this is backed by our Total Quality Management System and ISO certificate.

This quality guarantee provides additional security and has formed the foundation of our Thermo Electric brand, synonymous for gas turbine temperature sensors that have the highest level of performance and reliability.

For further detailed product information on our range of temperature sensors and applications in which they can be used, please visit our website: www.doedijns-instrumentation.com or contact one of our sales specialists.
We have dedicated manufacturing and testing facilities located in The Netherlands. Our Thermo Electric branded temperature sensing products are supplied direct from our headquarters to our customers, through Doedijns Instrumentation sales and service centres across the globe.

High standards and efficient supply
Our dedicated central production and engineering facilities allow us to maintain our high standards and best practice in engineering and design. This expertise is reflected in the efficient supply of Thermo Electric temperature sensors and in our consistent achievement of quality in the field.

Services
• Vortex stress calculations for Thermowells
• X-rays
• Welding robot
• Manufacturing record book
• Quality inspection plan
• Explosion safe certificate Exi, Exe, EXd, EXn
• Material certificate (NACE, 3.1)
• Cleaning for oxygen service
• Visual inspection
• Dimensional check
• Drawings for approval
• WPS and PQR for welded Thermowells

Test facilities
• Functional performance test
• Loop resistant test
• Insulation resistance test
• Dye penetration test
• Pressure test
• Calibration test
• From –200 °C up to 1,250 °C (RvA/ILAC)
• Calibration test for each instrument, mV, mA, Ohms and V (RvA/ILAC)
• Vacuum test
• Helium leak test
• PMI test