Gas turbine temperature sensors for all applications

Innovative temperature measurement solutions from the global leader
Gas turbine temperature sensors for all applications

To guarantee and maintain high quality standards, Doedijns Instrumentation (with the brand name Thermo Electric) has a completely separated production facility.

Our well experienced staff is always on hand to assist you in determining the most efficient way to meet your requirements. We provide the highest quality materials produced under written procedures and backed by our Quality Control System with an industrial reputation for consistent excellence.

Turbine temperature sensors measure the temperature at different points in a turbine from the exhaust temperature to the bearing temperature. This means ambient temperature ranges up to 1,000 °C exhaust temperatures.
The construction

The temperature sensors are made from mineral insulated materials with a metal sheath from SS or higher quality, depending on the application. The temperature sensors can be supplied as thermocouples or Pt100 elements. Thermocouples and Pt100 elements can be used in high vibration constructions for typical applications such as a compressor which will be used together with a turbine.

The mineral insulated construction is typically used in most applications, this is due to the base material being bendable. If thermocouples are used, the hot junction can be supplied grounded or insulated, depending on the type of measurement which is required. The base material can be supplied complete with a supporting batch certificate. Each temperature sensor will have a standard functional test.
The superior quality 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 website www.doedijns.com or contact one of our sales specialists.
Manufacturing facilities
In 2001 the activities of temperature sensor specialist Thermo Electric were acquired by Doedijns International B.V.

Thermo Electric is a leading brand name in the temperature sensors and ancillary equipment market whose history dates back for over 60 years. Our Thermo Electric products find their way into all of the important industrial areas worldwide such as: petrochemical and chemical, semi-conductor, aerospace, steel, non-ferrous, turbine, glass and energy.

To guarantee and maintain the highest quality for all our Thermo Electric temperature sensors, we can supply from our production location in Waddinxveen, The Netherlands, various tests and services.

Engineering and designing expertise are reflected by an ever expanding family of sensor products to precisely measure temperature. Doedijns Instrumentation provides world scale service to international companies as well as a fast and efficient local service.

Our testing facilities
- Functional test.
- Loop resistant test.
- Insulation resistance test.
- Dye penetration test / NDT test.
- Pressure test.
- WPS and PQR for welded thermowell.
- Calibration test from –200 °C up to 1,250 °C (RvA).
- Batch certificate.
- Calibration test for each instrument, mV, mA, Ohms and V (RvA).
- Vacuum test.
- Helium leak test.

Service
- Vortex stress calculation for thermowell.
- X-ray’s.
- Welding robot.
- PMI test.
- Manufacturing record book.
- Quality inspection plan.
- Explosion safe certificate Exi, Exe, Exd and Exn.
- Material certificate (NACE, 3,1).
- Cleaning for oxygen service.
- Visual inspection.
- Dimensional check.
- Drawings for approval.
- Certificate of origin.
- Certificate of conformance.
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