

**Greater Control
Incomparable
Accuracy
Next Generation
Thinking in Action**

The world's leading Temperature Sensors Systems

Power of Pedigree

Auxitrol Weston **leads the Temperature Sensors market**, which we have dominated for more than forty years, with our constantly evolving Thermocouple and TAT sensor technologies.

During this time, we have also amassed over thirty years of integrated, high temperature harness expertise, providing more holistic solutions for our Customers and extending our already enviable pedigree of many billions of engine flying hours. This wealth of well tested experience makes us **invaluable** to those who crave engineering excellence.

Trust the Experts

When you do business with Auxitrol Weston, you are not merely accessing guaranteed quality and performance, you are tapping into an unrivalled resource of more than one hundred **Sensor Experts** who are **passionate about technological and engineering advancement**. And, more importantly, about working with you to find inspirational solutions to your engineering challenges!

Reliability

Reliability is an often over-used and an unsubstantiated word to drive up product preconceptions. However, at Auxitrol Weston, it's our endorsement. Our final word, in a process of **Accelerated Life Testing** which subjects all our sensors to unprecedented extremes, in order that we can understand what it takes to break our products, so that you can't!

Thermocouples

Manufactured to exacting standards, our thermocouples incorporate Auxitrol Weston' **exclusive material** selection and resistance control, which have been shown to consistently deliver **unrivalled accuracy alongside exceptional operational life** expectancy. And, the **tightest long term stability tolerances** over an extended period of any similar product currently available on the market.

General Features

- Operating temperature capability to 1200°C
- High temperature Terminal capability to 550°C
- Vibration capability to 40g+ across the standard bandwidth
- Excellent long term stability
- MTBF in excess of 1 million hours

NOT LISTED

Harnesses

Recent innovations at Auxitrol Weston include the development of harness assemblies aimed at next generation turbines, where arrangements of up to twenty Thermocouples are designed for precise resistance control, to optimise accuracy. Such arrangements currently form part of many OEM programmes.

Total Air Temperature Sensors (TAT)

At Auxitrol Weston our TAT sensor research and development is constantly looking beyond current customer requirements, even recent changes in FAA legislation, to anticipate the technologies required for the future.

Consequently, our latest TAT sensors incorporate two defining characteristics – our patented, cutting edge Platinum RTD, with its rather **clever monocoq ceramic element mandrel and a unique aerodynamic and thermodynamic monocoq body**, made from Auxitrol Weston' exclusive "All - Ice" alloy technology. This sensor effectively removes the need for any form of electric heating.

General Features

- Temperature range from -78°C to +150°C
- Exceed latest EASA and FAA Regulations
- Customised interface (1x100; 2x100; 1x200; 2x200; 1x500; 2x500 Ohms)
- Unique ceramic monocoq element mandrel design
- Extremely low sensitivity to ice crystal and icing conditions
- Our sensors outperform our competitors in independent tests

"All Ice®". Next Generation thinking in action

In our Atmospheric Laboratory at Bourges, France we are **constantly perfecting** methods of de-icing, utilising our **exclusive cloud simulation equipment**, which allow us to recreate operational conditions ranging from controlled icing through minute water droplet spray to constant ice crystal bombardment of concentrations ranging from 0.2 to 8 grms/m³ and up to 1mm in particle size, at various speeds and temperatures. Accuracy on these sensors can reach +/-0.3°C

Our **revolutionary "All Ice®"** alloy is already proven to have excellent mechanical and thermal characteristics and is of particular advantage for applications in environments where heating has historically been required for ice accretion.

And, in line with Auxitrol Weston' Corporate Social Responsibility policy, **"All Ice®" contains no toxic Be compounds**, which is a contributing factor in keeping us ahead of our REACH targets.

NOT LISTED