

DELIVERING EXCELLENCE

TGT (Turbine Gas Temperature) Thermocouples

FEATURES

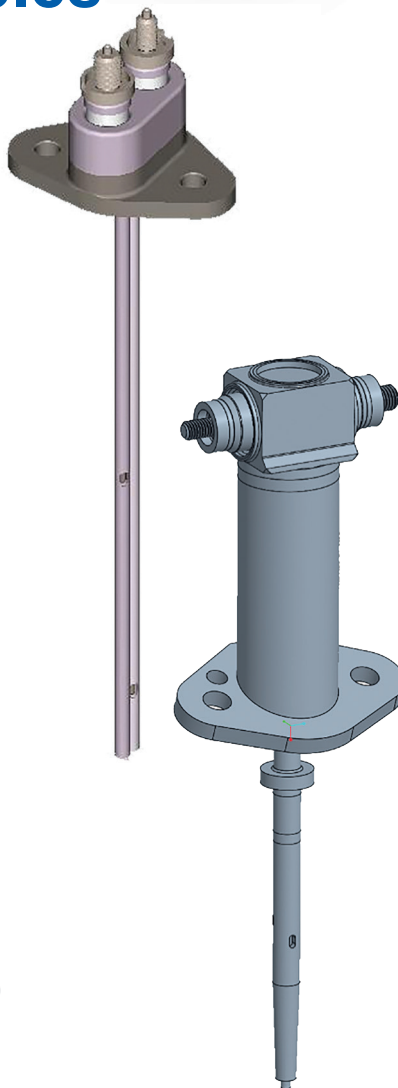
- K Type, Class 1/Special Limits thermocouple
- Two measurement points at different depths
- Multiple connection options
- Corrosion Resistant
- Hermetically sealed
- Optimised design to suit engine application
- Robust designs for extreme aerospace environments

BENEFITS

- Over 300 million flying hours
- High individual probe and system accuracy
- Low drift (stable accuracy)
- Fast response time
- Light weight design
- Robust high torque terminals
- Reliable and long life
- Proven technology with over 50 years of pedigree
- High levels of dielectric and insulation resistance

APPLICATIONS

- RR: Trent 700, 800, 500, XWB, Pearl 700, BR700, TP400
- GE: CF6-80E1/80C2



■ Auxitrol Weston's TGT Thermocouples have been individually designed for and certified on multiple engines for various customers. These TGT's have amassed over 300 million flight hours.

■ Design options include Compact or Flying lead designs, Terminal or Connector terminations, bespoke engine mounting fixing points and unique intrusive lengths.

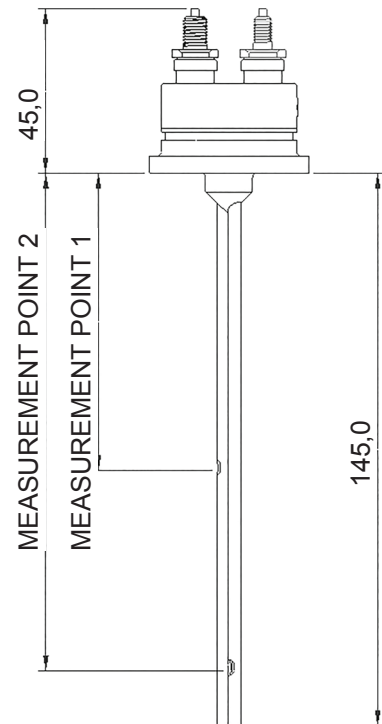
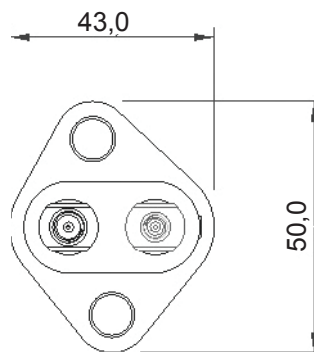
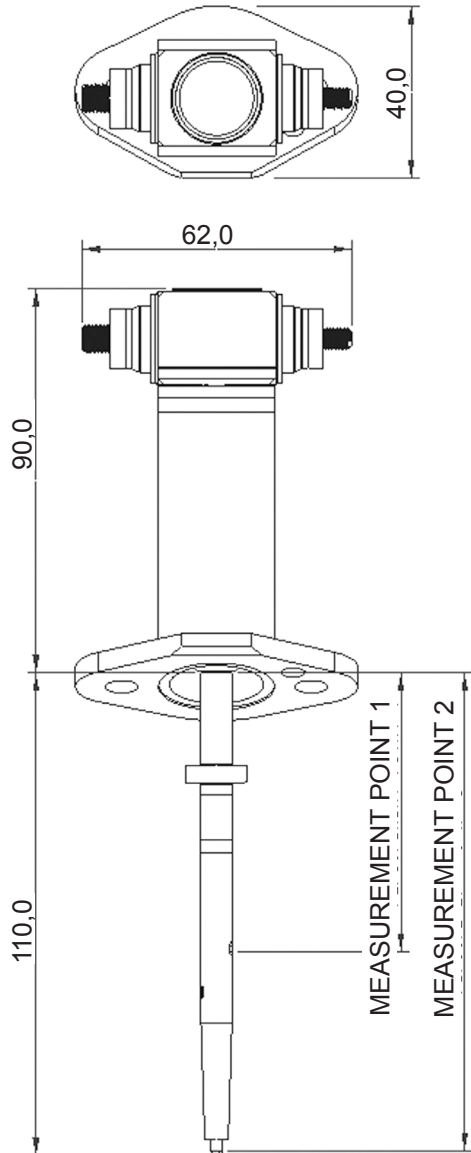
■ The immersed section is manufactured from high temperature oxidation and corrosion resistant materials, capable of long life in a combustion environment.

■ The probes are closely matched for DC Resistance to give improved accuracy when assembled with a harness into a TGT System.

■ High accuracy is achieved by the use of BS EN 60584-2 Class 1 or ASTM E230M special Limits Type K thermocouple materials for the entire circuit, with optimum response time (time constant) achieved by utilising small diameter elements.

Typical Performance Specification

Measured temperature	-75°C up to 1200°C (higher temperatures can be achieved for short durations)
Output	BS EN 60584-2 Class 1 / ASTM E230M Special Limits, Type K
Insulation Resistance	>1GΩ at 500V DC
Life	>40,000 Operating Hours (depending on flight temperature profile)
Reliability	Typically >850,000 Flight Hours (MTBF)
Terminals & Connectors	Ni/Cr: 10-32 UNF-2A thread, Ni/Al: ¼ UNF-2A thread EN2997, ESC10, etc



Examples shown above are for information, dimensions can be modified to meet unique installations

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