

DELIVERING EXCELLENCE

TVent & T Oil Thermocouples

FEATURES

- K Type, Class 1/
Special Limits thermocouple
- Multiple connection options
- Corrosion resistant
- Hermetically sealed
- Optimised design to suit
engine application
- LRU designs for ease of
lifecycle maintenance
- Robust designs for extreme
aerospace environments

BENEFITS

- High accuracy
- Low drift (stable accuracy)
- Fast response time
- Light weight design
- Robust high torque terminals
- Reliable and long life
- Proven technology with over 8
years of pedigree
- High levels of dielectric and
insulation resistance

APPLICATIONS

- RR: Trent 900, Trent XWB,
Pearl 700



■ Auxitrol Weston's TVent / T Oil Thermocouples have been individually designed to measure Vent air or a mist of Oil and Air temperatures to help detect fires. These Thermocouples have been certified on multiple engines.

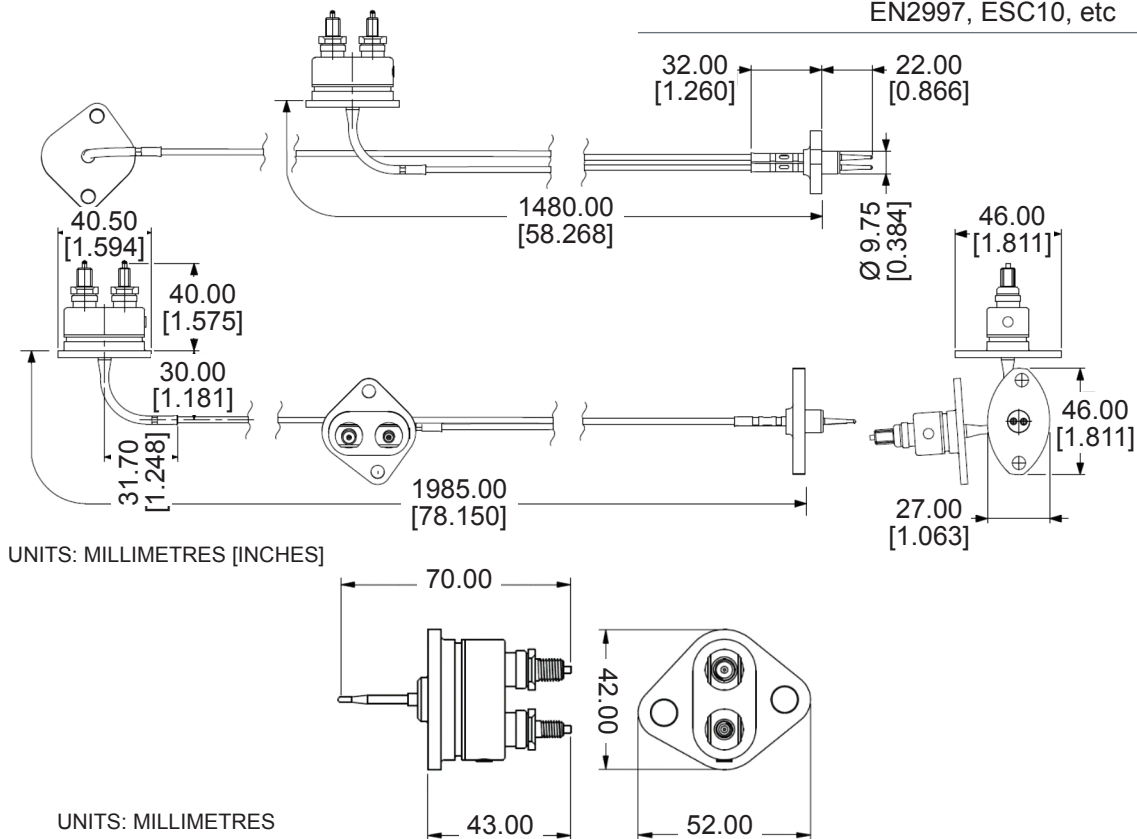
■ Design options include Compact or Flying lead designs, Terminal or Connector terminations, bespoke engine mounting fixing points and unique intrusive lengths

■ The immersed section is manufactured from high temperature oxidation and corrosion resistant materials. The element (Mineral Insulated Cable) sheath material also has a very well balanced ion match; this achieves exceptional long term stability and maintains accuracy after extensive thermal cycling

■ 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 swaging the element to a small diameter.

Typical Performance Specification

Measured temperature	-55°C up to 800°C with short term excursions under fire/failure conditions above 1200°C
Output	BS EN 60584-2 / ASTM E230M, Type K
Insulation Resistance	>1GΩ at 500V DC
Life	>80,000 Operating Hours (depending on flight temperature profile)
Reliability	Typically >1,000,000 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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