

# GLE/AATS-001

## Airborne Air Temperature Sensor

### Main Features

- Compact & Rugged Stainless Steel Construction
- Ceramic RTD sensor thermally isolated from body
- PTFE 4-wire shielded cable
- 1/10 DIN RTD Tolerance Class



### Description

**GLE/AATS-001** is a compact, lightweight and rugged PT100 sensor, specifically designed for airborne instrumentation applications.

This precise temperature sensor has four wires, M27500 specification, PTFE coated shielded cable, to provide maximum flexibility when

connected to different kind of signal conditioning / data-acquisition systems.

The RTD temperature element is thermally isolated from stainless steel protection body by an insulating bushing in PEEK material.

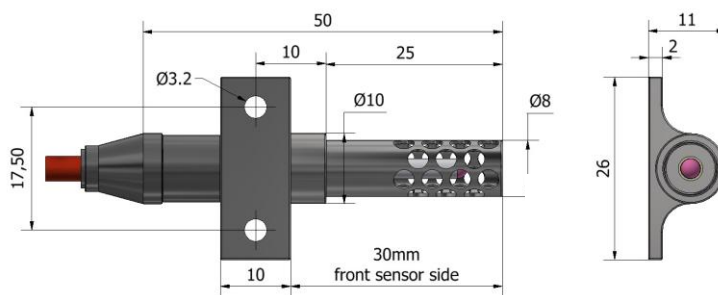
It consists of fine platinum wire wrapped around a ceramic core.

GLE/AATS-001, moreover to be suitable for manned and unmanned aerial platforms, is an optimal solution for instrumentation and testing applications in harsh environments, as for example: armoured and heavy-duty vehicles, railway vehicles, construction machinery, automotive R&D...

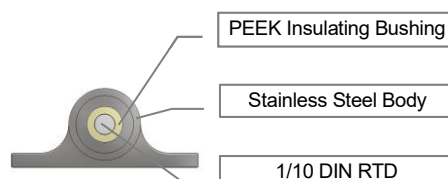
### Main Characteristics

Measurement range	-50 °C to +200° C per 1/10 DIN
Operating temperature range	-65 °C to +250 °C (front sensor side, excluding cable and cable gland).
Nominal resistance	100Ω @ 0°C
Lead material	Platinum Plated Palladium
Recommended current	1mA
Temperature coefficient	0.003851
Ice point resistance	100 ± 0.003Ω
Self-Heating effect	In still air 330 mK/mW
Response time (50%)	Air @1m/s 6 seconds
Response time (50%)	Water @0.4m/s 0.25 seconds
Repeatability / Stability	Meets the requirements of IEC 60751:2008 (6.4.2)
Shock / Vibration	Designed to withstand up to 40 g / 20 g per MIL-STD 810F
Materials	Stainless Steel body with ceramic RTD thermally isolated by a PEEK bushing
Electrical connections	4-wire free leads 24awg, M27500 specification PTFE coated shielded cable, 60 cm long

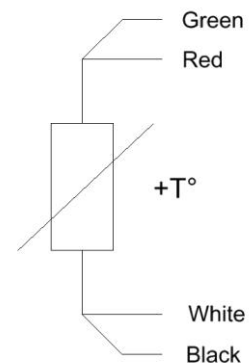
### Mechanical Characteristics



Dimensions are in mm



### Electrical Wirings



Due to continuous developments, specifications are subject to change without prior notice.

This product is not intended for applications whose its failure to perform can be expected to cause damages to properties and/or persons and/or injury to human life.

GreenLake Engineering Srl

the engineering branch of Instrumentation Devices

Via Acquanera 29, 22100 COMO - Italy

ph +39.031.525.391 - fax +39.031.507.984 - info@greenlake-eng.com

[www.greenlake-eng.com](http://www.greenlake-eng.com)