TECHNICAL DOCUMENTATION	28/04/2010	TEMPERATURE	Exhaust Gas Thermocouple
Notes: technical documentation, dimensions and pinout of exhaust gas thermocouple **Version 1.03**			

1 – Introduction

AIM loggers can measure exhaust gas temperature using a sensor (thermocouple) placed in the exhaust header pipe. **All AIM thermocouples are K type sensors**.

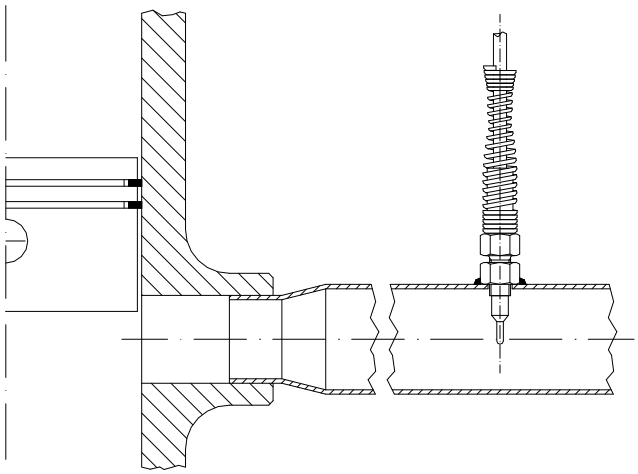
2 – Installation notes

Exhaust gas sensor (or EGT) should be positioned in the header pipe at a distance of about 150 mm (5.9 inches) from the exhaust pipe. The below figure shows the correct installation of the sensor.

To install EGT sensor follow these instructions:

- make a 5 mm (0.2 inches) hole in the header pipe at a distance of 150 mm (5.9 inches) from the exhaust pipe;
- weld the screw nut where the hole has been made.

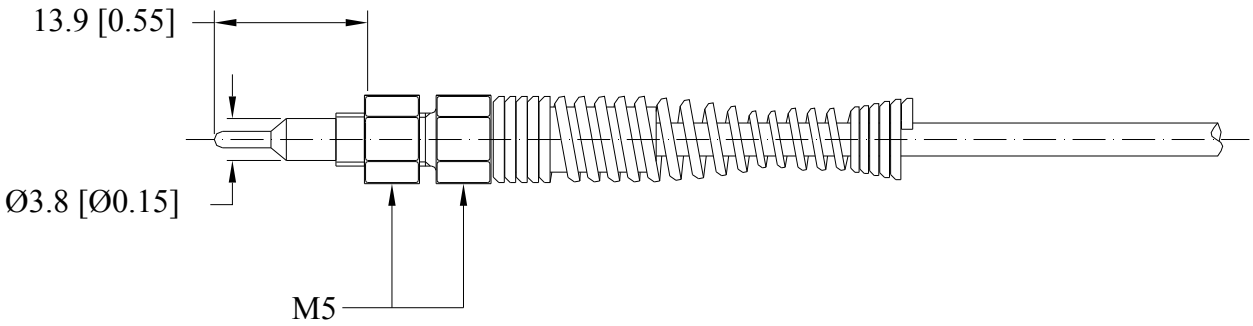
Warning: when running the thermocouple cable along the chassis be careful and keep it as far as possible from other cables (like RPM cable or lap receiver one) so to minimize mutual interferences.



3 – Part numbers

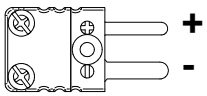
Exhaust gas thermocouple (EGT sensor) M5 thread: **3CVGAS807**

4 – Dimensions, pinout and technical characteristics



EGT Thermocouple – Dimensions in millimetres [inches]

4.1 – Pinout

EGT connector pinout	
Pin	**Function**
+	Temperature signal 0-50 mV
-	GND
	
Male Mignon connector pinout Top lateral view	

4.2 – Technical Characteristics

Exhaust Gas Thermocouple	
General characteristics	**Value**
Temperature working range	0 – 1000°C [32-1832° F]
Cable length	250 mm [9.8”]
Cable type	Compensated

Note 1: EGT thermocouple comes with a 250 mm compensated cable that ends with a male mignon connector.

Note 2: extension cables standard 0,5 m, 1m e 1,5m lengths are available but on demand specific lengths can be supplied.