AiM Infotech

T12 Exhaust gas thermocouple CIK-FIA homologated

Release 1.02

AiM

This tutorial explains how to install T12 Exhaust Gas Temperature thermocouple (EGT) CIK-FIA homologated.

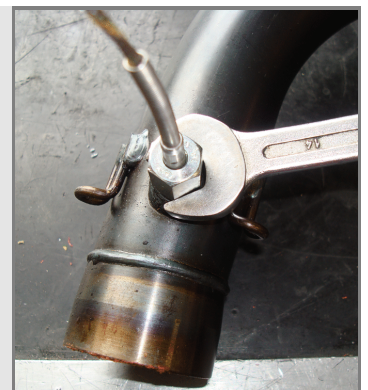This sensor **part number** is: **X05GAS12A4510M**

1
Introduction

AiM loggers can measure exhaust gas temperature using a sensor – K type thermocouple – placed in the exhaust header pipe.

2
Installation notes

Exhaust Gas Temperature sensor (or EGT) should be installed in the dedicated point at the end of the pipe. To install it:

• make a hole in the header pipe – left image below – and insert the thermocouple in the pipe;
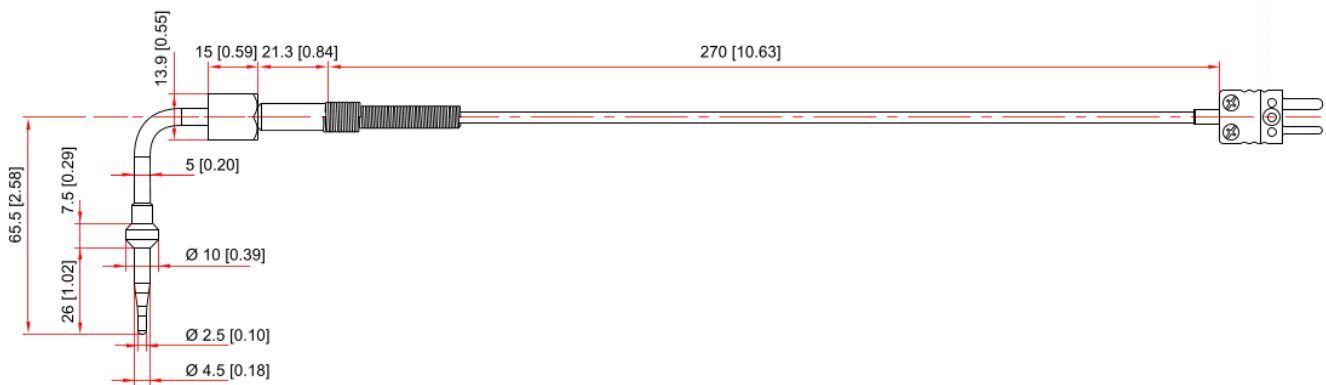• screw the nut – image below on the right

Warning: when running the thermocouple cable along the chassis keep it as far as possible from other cables (like RPM cable or receiver one) to minimize possible interferences.
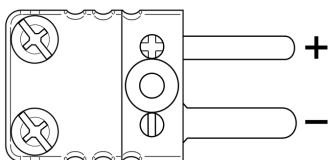
3
Dimensions, pinout and technical characteristics

The image here below show the thermocouple dimensions in mm [inches].

The image here below shows the Mignon male connector and its pinout.

Mignon connector pin	Function
+	Temperature signal 0+50 mV
-	GND

The EGT thermocouple technical characteristics are:
* temperature working range: 0-1000°C (32-1832°F)
* cable: compensated
* cable length: 250 mm (9.8")

4
Wiring compatibility

To connect this sensor to MyChron you can use extension cable with part number **V03CCB15M** shown here below. Cable length is 1500 mm – 59 inches.

The sensor is compatible with the following MyChron 2T wiring.

- Wiring with 1 thermocouples and 1 thermoresistor. Part number: **V.02.557.110**

- Wiring with two thermocouples. Part number: **V.02.557.070**