

AiM Infotech

T12 Exhaust gas
thermocouple CIK-FIA
homologated

Release 1.03



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

This sensor **part number** is: **X05TCM12A1175M**

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

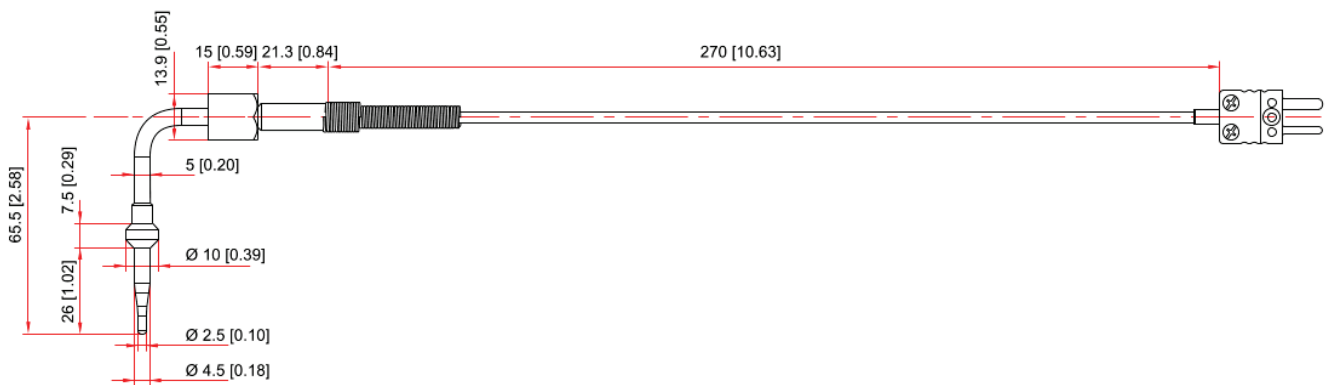


Warning: when running the thermocouple cable along the chassis keep it as far as possible from other cables (like RPM cable or receiver one) to minimize possible interferences.

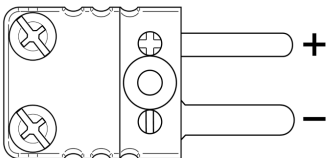
3

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 wiring

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



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

