

AiM Infotech

Exhaust gas thermocouple
with exposed junction
homologated for KF 2010
and subsequent header
pipes

Release 1.00



This tutorial explains how to install Exhaust Gas Temperature thermocouple (EGT) with exposed junction, specifically developed and designed for KF 2010 and subsequent homologated exhaust pipes.

This sensor **part number** is: **3CVGGE009**

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) with exposed junction and KF 2010 homologation should be installed in the dedicated point at the end of the pipe. To install it:

- make a hole in the header pipe with a 5 mm – 5/32 inches – drill bit and insert the thermocouple in the pipe;
- screw the nut with a 14 mm (9/16 inches) adjustable wrench (image 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.

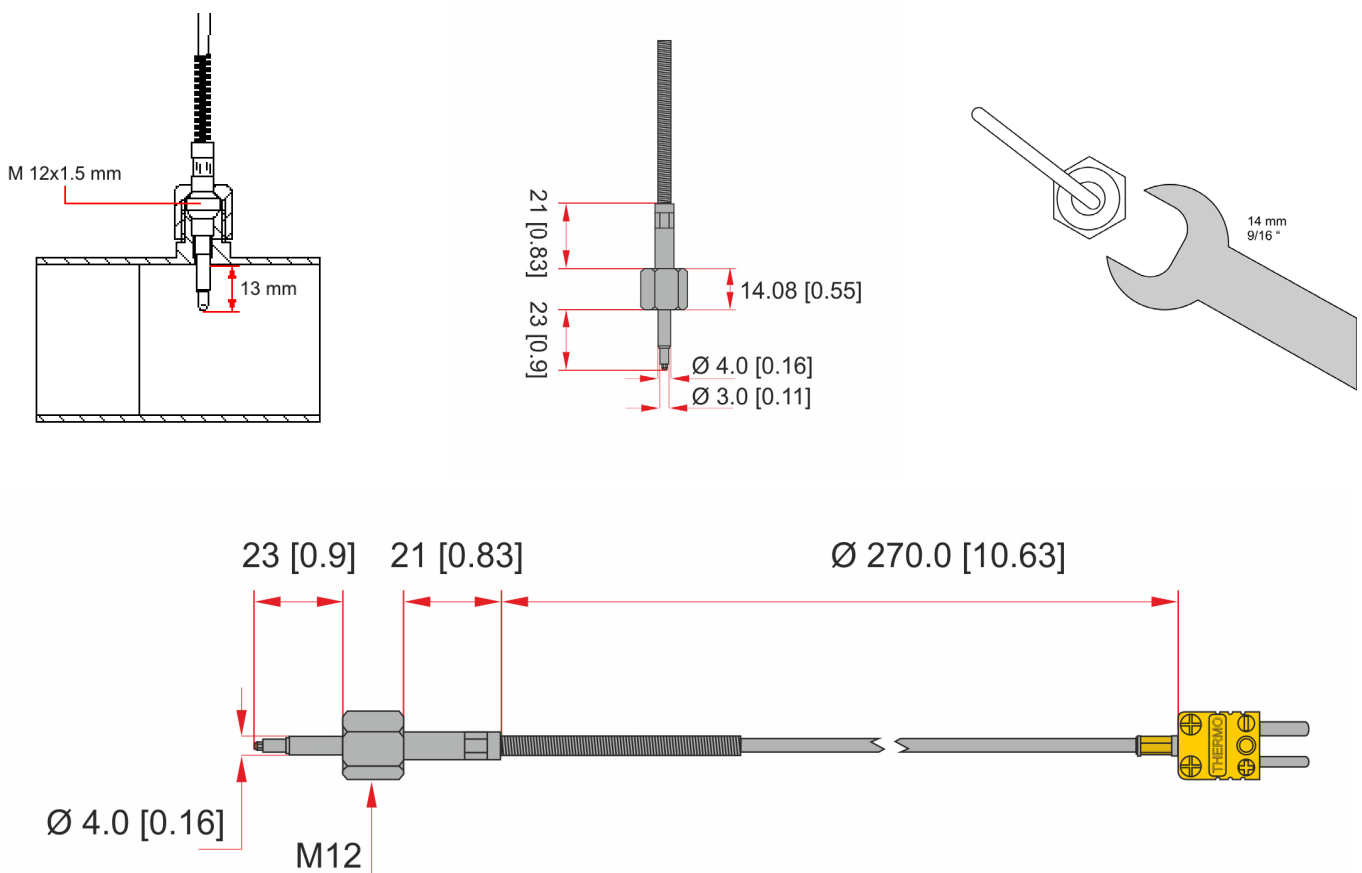
3

Dimensions, pinout and technical characteristics

The sensor ends with a male Mignon connector and comes with the nut to be screwed shown in the right image of the previous page.

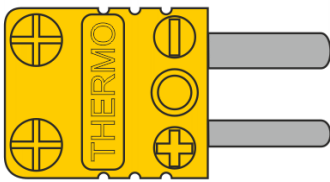
3.1 Dimensions

The images here below show: from the left to the right the thermocouple with exposed junction installed, its dimensions and the adjustable wrench to be used to screw the nut while on bottom EGT KF 2010 with its cable measures.



3.2 Pinout

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



Mignon connector pin

Function

-

GND

+

Temperature signal 0+50 mV

3.3 Technical Characteristics

EGT thermocouple with exposed junction developed for KF2010 and subsequent homologated header pipes:

- has a 0-1000°C (32-1832°F) temperature working range.
- is supplied with a 250 mm (9.8") compensated cable ending with a male Mignon connector.

4 Wiring compatibility

To connect this sensor to MyChron4 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 MyChron4 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**

