

AiM Release 1.01 ACC2 Open Analogue CAN Converter



AiM Release 1.01 ACC2 Open Analogue CAN Converter User Manual

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AiM Release 1.01 ACC2 Open Analogue CAN Converter



Product Information

- **Specifications:**

- 4 fully configurable channels
- Supports sensors such as thermocouples, thermoreceptors, 0-5V, 0-12V, 9-12V, and 12-15V
- Supports up to four K-type thermocouples
- CAN 2 Binder 712 female connectors
- **Material:** PA6 30% glass
- **Dimensions:** 44x38x19.8mm
- **Weight:** 50g
- IP65 rated for water and dust resistance

Product Usage Instructions

- **Setting Up Thermocouples:**

- First, determine the number of thermocouples you will connect (up to 4). Ensure you have the proper harness for the thermocouples.

- **Configuring Channels:**

- Configure each channel by clicking on it and accessing the settings panel. Set the appropriate function based on the sensor connected to ACC2.

- **Saving Configuration:**

- Once the configuration is completed, save the settings and transmit them to the logger (e.g., MXG 1) using the software's top left keyboard.

- **Dimensional Information:**

- The image below displays the dimensions of ACC2 in millimetres and inches.

FAQs

- **Q: What kind of sensors does ACC2 support?**

- **A:** ACC2 can manage various sensors including thermocouples, thermoreceptors, 0-5V, 0-12V, 9-12V, and 12-15V.

- **Q: How many K-type thermocouples can ACC2 support?**

- **A:** ACC2 can support up to four K-type thermocouples.

Introduction

ACC2 (Analog CAN Converter) is an expansion module that samples up to 4 analog signals, converts them into digital values depending upon the chosen unit of measure and transmits them via CAN to an AiM Master device, at a maximum frequency of 200 Hz.

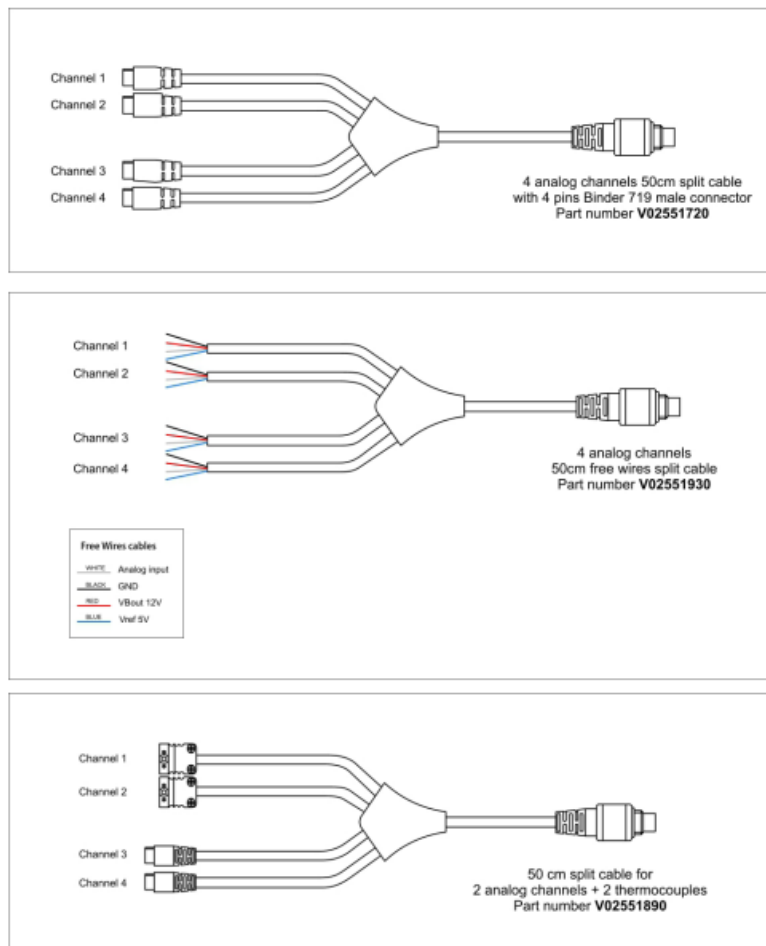
The analog signals that ACC2 manages are:

- 0-5V
- chemoresistance
- 0-12V
- K Type thermocouples

Wirings

ACC2 can manage many different sensors, from Thermocouples to sensors whose output is 0-12V. Please, note that the thermocouples require dedicated compensated cables, so different kits and different harnesses and cables are available. Here down some examples of the available harnesses.

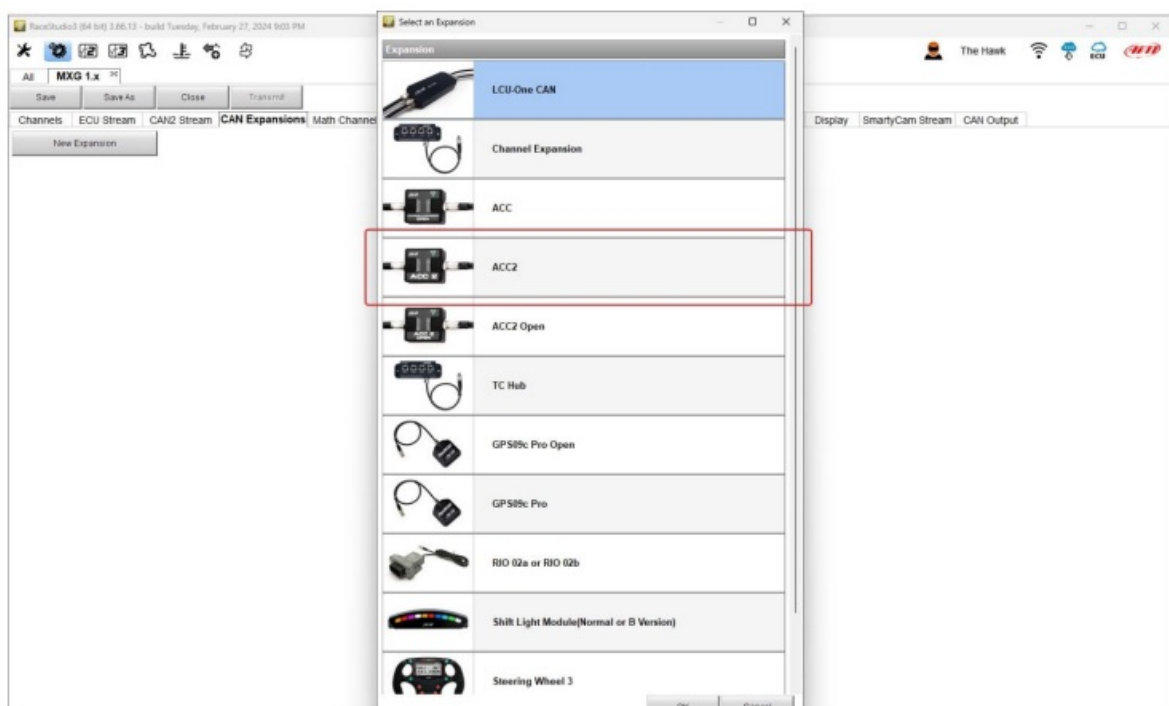
- Harness intended to be used with AiM sensors (Thermo resistances, 0-5V, 0-12V).
- Harness-free wires for Thermoresistences, 0- 5V, 0-12V.
- Harness for 2 thermocouples and two AiM sensors.



Configuration

To configure ACC2 follow these steps:

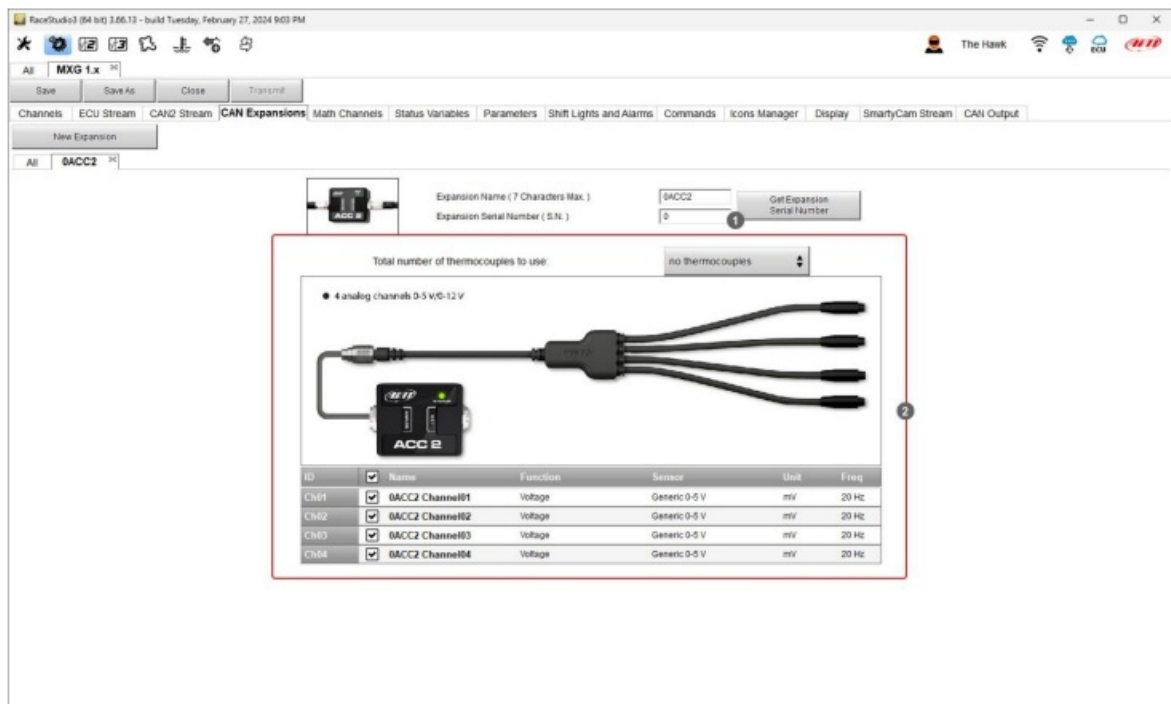
- run RaceStudio 3 software and select the Master device you need to configure (MXG in the example)
- enter the “CAN Expansions” tab and select “ACC2” expansion as shown here below.



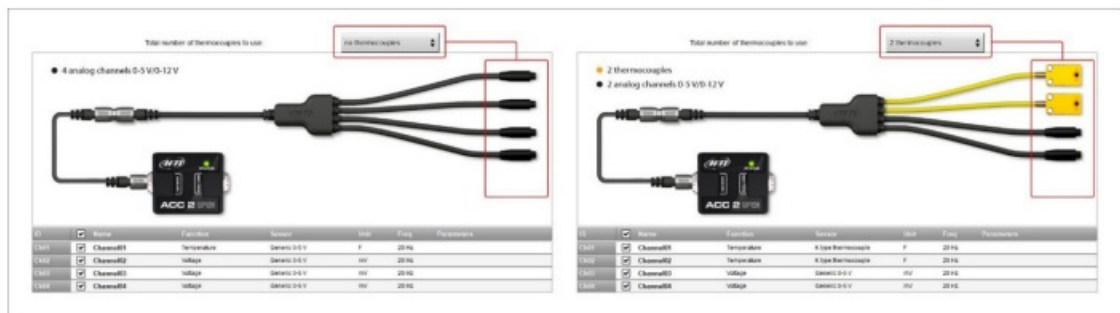
The software enters the ACC2 Configuration Tab.

Keeping ACC2 connected you can:

- name it
- get its serial number by pressing the corresponding button (1)



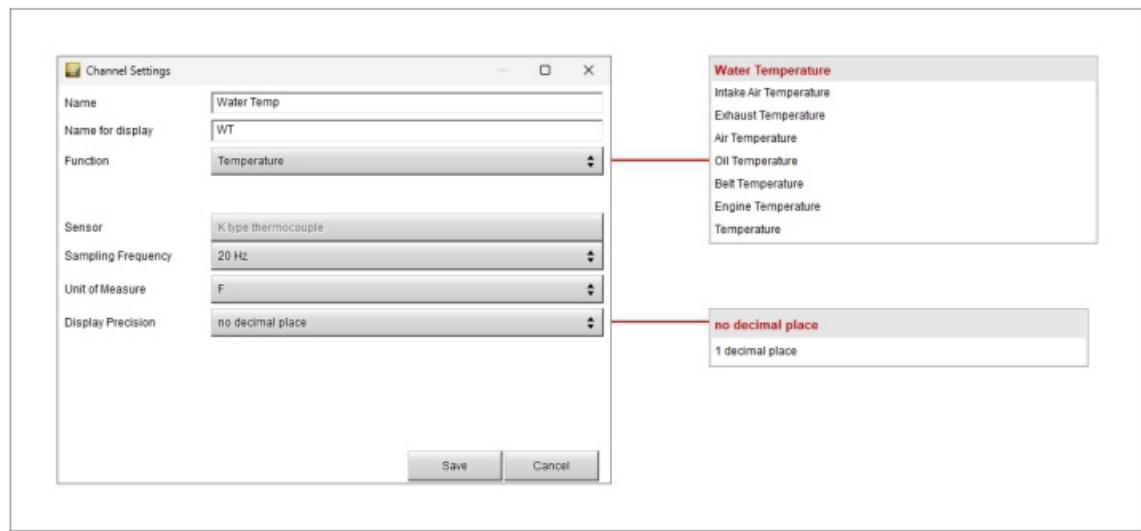
- First of all, you need to set the number of thermocouples you will connect (2); of course, you need the proper harness as shown below.



- ACC2 supports up to four K-type thermocouples. Once the number of thermocouples (s) to be connected is fixed the software warns you and the corresponding channel(s) switches to “Temperature”.

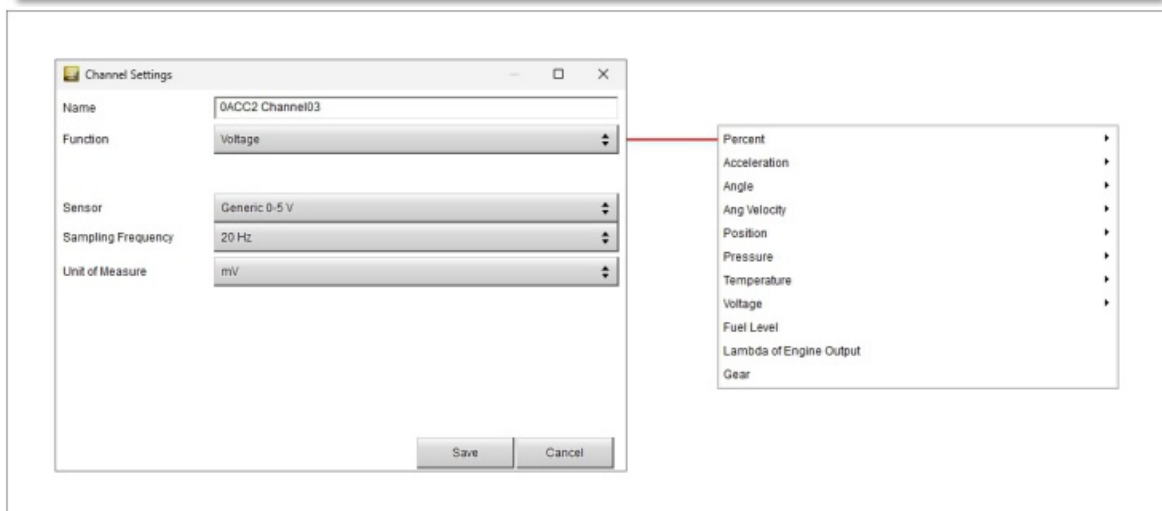
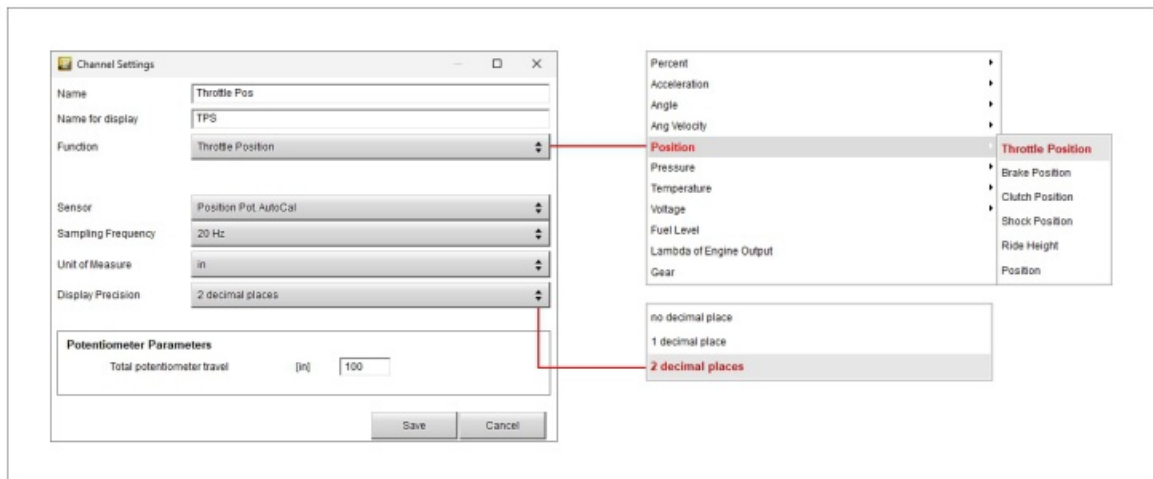
To set the temperature channel:

- select the channel
- name it (“Water Temp” in the example below)
- select the function in the menu (Water Temperature)
- set the sampling frequency
- set the unit of measure (°C or °F)



Similarly you have to configure the remaining channels:

- Click the channel to set and a setting panel is prompted; a lot of possible functions can be set according to the kind of sensor you connect to ACC2.

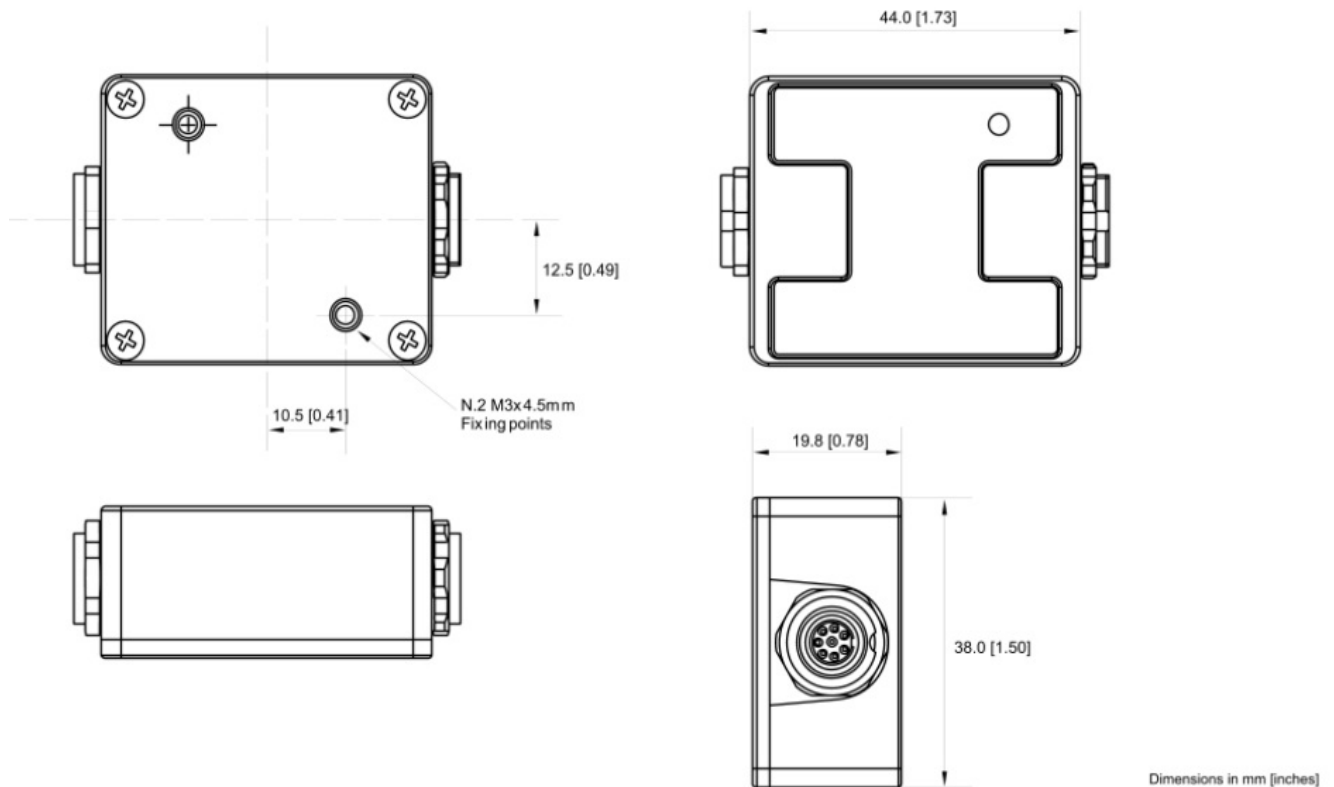


- When the configuration is finished save and transmit it to the logger (MXG 1 in the example) using the software's top left keyboard.

Dimensions

Dimensions and technical characteristics

- The image below shows ACC2 dimensions in mm [inches]



Technical Characteristics

- **Analog Channels:** 4 fully configurable, 200 Hz each: thermocouple, thermos resistors, 0-5V, 0-12V
- **External Power:** 9-12V (supports sensors TC-TR 0-5V) 12-15V (supports sensors that needs 12V power)
- **Connection:** CAN
- **Connectors:** 2 Binder 712 female connectors
- **Material:** PA6 30% glass
- **Dimensions:** 44x38x19.8mm
- **Weight:** 50g
- **Waterproof:** IP65
- **Release** 1.01

Documents / Resources



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Release 1.01, Release 1.01 ACC2 Open Analogue CAN Converter, Release 1.01, ACC2 Open Analogue CAN Converter, Open Analogue CAN Converter, Analogue CAN Converter, CAN Converter, Converter

References

- [User Manual](#)

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