

AiM InfoTech

Configuration with  
Race Studio3 - UTV/ATV  
infrared Transmission Belt  
temperature

Release 1.00

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# 1

## Introduction

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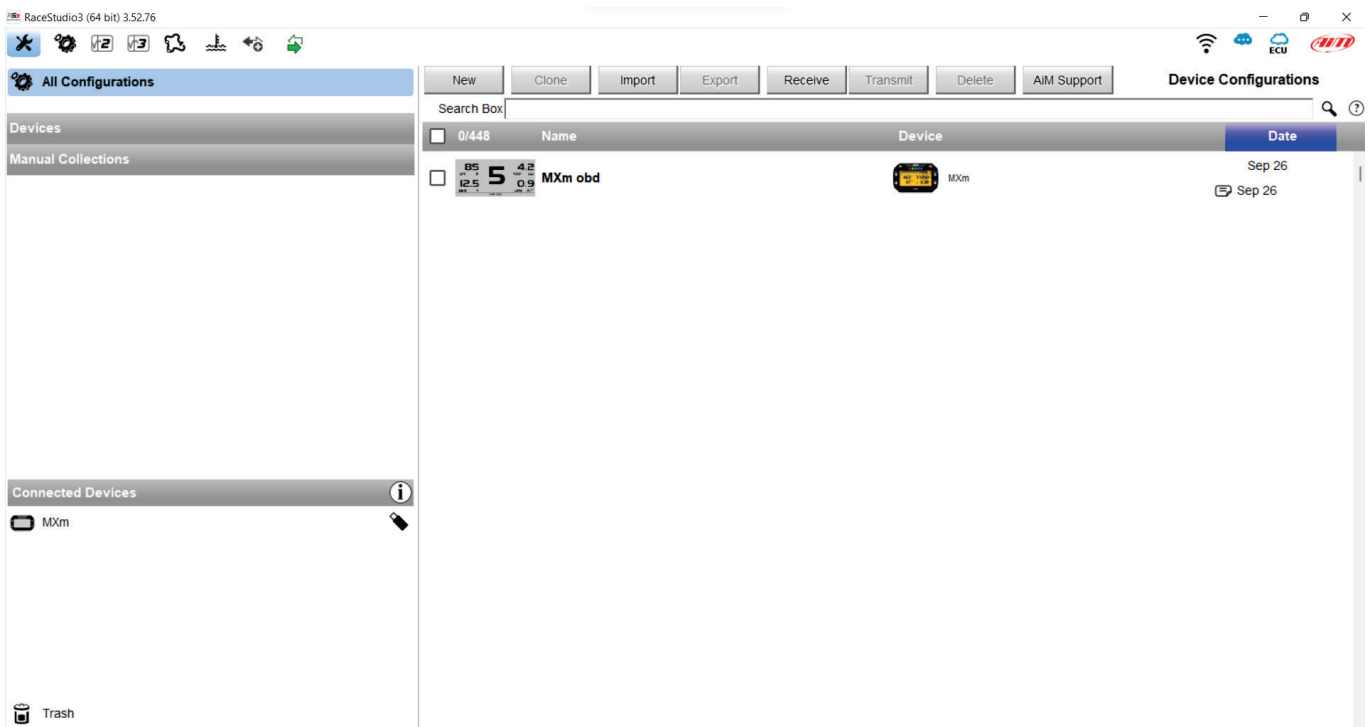
Once the transmission belt infrared temperature sensor is physically connected to one of the analog channels of AiM device it has to be loaded in the related configuration using AiM Race Studio 3.

# 2

## Setup with Race Studio 3

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To configure the sensor in the device configuration, keeping it connected to the PC and turned on, run the software and select the device configuration to load the sensor (MXm in the example)



The software enters “Channels” layer: select the channel where to set the sensor on and configure the panel that is prompted.

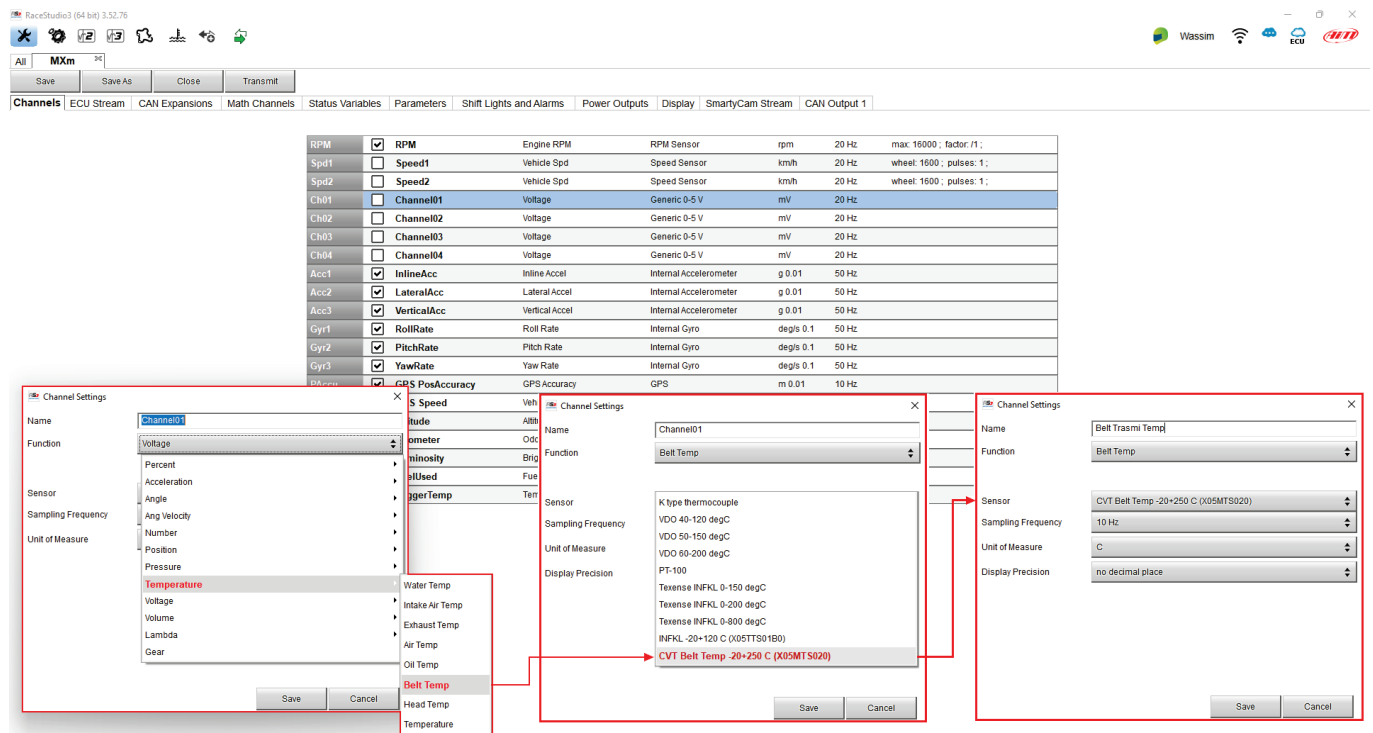
**Please note:** different AiM devices have a different channels management; this is why the configuration panel changes according to the device you are configuring.

AiM devices that manage the channels **as analog** are:

- EVO4S
- EVO5
- MXm
- MXL2/MXG/MXS/MXS Strada

To configure the sensor:

- Click the channel where to set the sensor on
- “Channel setting” panel is prompted: select: “Temperature-> Belt Temperature “function.
- The software sets the sensor as “K type thermocouple”: **select** “CVT Belt Temp -20 +250C (X05MTS020)
- Press “Save”



AiM devices that manage the channels **both as analog and digital** are:

- MXS1.2/MXP/MXG1.2
- MXS1.3/MXP1.3/MXG1.3
- MXS1.2 Strada/MXP Strada/MXG1.2 Strada
- MXS1.3 Strada/MXP1.3 Strada/MXG1.3 Strada
- MXsl
- PDM08/PDM32

To configure the sensor:

- click the channel where to set the sensor on
- “Channel setting” panel is prompted: select “Analog” management
- >select “Temperature-> Belt Temperature “function.
- the software sets the sensor as “K type thermocouple”: **select “CVT Belt Temp -20 +250C (X05MTS020)”**
- Press “Save”

The screenshot displays the RaceStudio3 interface with the Channels table and three overlapping Channel Settings dialog boxes. The Channels table lists various sensors, with Channel01 highlighted. The first dialog box shows the 'Function' dropdown menu with 'Temperature' selected. The second dialog box shows 'Belt Temp' selected in the 'Function' dropdown and 'CVT Belt Temp -20+250 C (X05MTS020)' selected in the 'Sensor' dropdown. The third dialog box shows the final configuration with 'Belt Temp' in the 'Function' dropdown and 'CVT Belt Temp -20+250 C (X05MTS020)' in the 'Sensor' dropdown.

ID	Name	Function	Sensor	Unit	Freq	Parameters
RPM1	<input checked="" type="checkbox"/> RPM	Engine RPM	RPM Sensor	rpm	20 Hz	max: 16000 ; factor: 1 ;
Spd1	<input type="checkbox"/> Speed1	Vehicle Spd	Speed Sensor	km/h	20 Hz	wheel: 1600 ; pulses: 1 ;
Spd2	<input type="checkbox"/> Speed2	Vehicle Spd	Speed Sensor	km/h	20 Hz	wheel: 1600 ; pulses: 1 ;
Spd3	<input type="checkbox"/> Speed3	Vehicle Spd	Speed Sensor	km/h	20 Hz	wheel: 1600 ; pulses: 1 ;
Spd4	<input type="checkbox"/> Speed4	Vehicle Spd	Speed Sensor	km/h	20 Hz	wheel: 1600 ; pulses: 1 ;
Ch01	<input checked="" type="checkbox"/> Channel01	Voltage	Generic 0-5 V	mV	20 Hz	
Ch02	<input checked="" type="checkbox"/> Channel02	Voltage	Generic 0-5 V	mV	20 Hz	
Ch03	<input checked="" type="checkbox"/> Channel03	Voltage	Generic 0-5 V	mV	20 Hz	
Ch04	<input checked="" type="checkbox"/> Channel04	Voltage	Generic 0-5 V	mV	20 Hz	
Ch05	<input checked="" type="checkbox"/> Channel05	Voltage	Generic 0-5 V	mV	20 Hz	
Ch06	<input checked="" type="checkbox"/> Channel06	Voltage	Generic 0-5 V	mV	20 Hz	
Ch07	<input checked="" type="checkbox"/> Channel07	Voltage	Generic 0-5 V	mV	20 Hz	
Ch08	<input checked="" type="checkbox"/> Channel08	Voltage	Generic 0-5 V	mV	20 Hz	