

AiM Manuale Utente

Car/Bike Tire temperature
sensor

Race Studio3 configuration

Release 1.00



1 Introduction

Once the tire temperature sensor is physically connected to one of the channels of AiM device it has to be loaded in the related configuration using AiM configuration software. In this datasheet it is loaded using **Race Studio 3** software.

2 Setup with Race Studio 3

- With the device switched on and connected to the PC run the software and select the device the sensor is connected to;
- select the configuration the sensor is to be loaded on or create a new one pressing "NEW" and select "Channels" layer as here below;
- select the channel where to set the sensor (in the example below channel01) and click on the related cell of "Sensor" column:

| ID | <input checked="" type="checkbox"/> | Name | Function | Sensor | Unit | Freq | Parameters |
|------|-------------------------------------|----------------|----------------|----------------------------|-----------|---------|---------------------------|
| RPM | <input checked="" type="checkbox"/> | RPM | RPM | RPM Sensor | rpm | 20 Hz | max: 16000 ; factor: 1 ; |
| Spd1 | <input checked="" type="checkbox"/> | Speed1 | Vehicle Spd | Speed Sensor | km/h 0.1 | 20 Hz | wheel: 1600 ; pulses: 1 ; |
| Spd2 | <input checked="" type="checkbox"/> | Speed2 | Vehicle Spd | Speed Sensor | km/h 0.1 | 20 Hz | wheel: 1600 ; pulses: 1 ; |
| Spd3 | <input checked="" type="checkbox"/> | Speed3 | Vehicle Spd | Speed Sensor | km/h 0.1 | 20 Hz | wheel: 1600 ; pulses: 1 ; |
| Spd4 | <input checked="" type="checkbox"/> | Speed4 | Vehicle Spd | Speed Sensor | km/h 0.1 | 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 | 1000 Hz | |
| Ch07 | <input checked="" type="checkbox"/> | Channel07 | Voltage | Generic 0-5 V | mV | 1000 Hz | |
| Ch08 | <input checked="" type="checkbox"/> | Channel08 | Voltage | Generic 0-5 V | mV | 1000 Hz | |
| AccX | <input checked="" type="checkbox"/> | AccelerometerX | Inline Accel | AIM Internal Accelerometer | g 0.01 | 50 Hz | |
| AccY | <input checked="" type="checkbox"/> | AccelerometerY | Lateral Accel | AIM Internal Accelerometer | g 0.01 | 50 Hz | |
| AccZ | <input checked="" type="checkbox"/> | AccelerometerZ | Vertical Accel | AIM Internal Accelerometer | g 0.01 | 50 Hz | |
| GyrX | <input checked="" type="checkbox"/> | GyroX | Roll Rate | AIM Internal Gyro | deg/s 0.1 | 50 Hz | |
| GyrY | <input checked="" type="checkbox"/> | GyroY | Pitch Rate | AIM Internal Gyro | deg/s 0.1 | 50 Hz | |
| GyrZ | <input checked="" type="checkbox"/> | GyroZ | Yaw Rate | AIM Internal Gyro | deg/s 0.1 | 50 Hz | |
| Accu | <input checked="" type="checkbox"/> | GPS Accuracy | GPS Accuracy | AIM GPS | mm | 10 Hz | |
| Spd | <input checked="" type="checkbox"/> | GPS Speed | Vehicle Spd | AIM GPS | km/h 0.1 | 10 Hz | |
| Alt | <input checked="" type="checkbox"/> | Altitude | Altitude | AIM GPS | m | 10 Hz | |
| Od0 | <input checked="" type="checkbox"/> | Odometer | Odometer Total | AIM ODO | km 0.1 | 1 Hz | |

- a configuration panel shows up
- select: "Temperature" function as well as the kind of temperature to sample (1) among:
 - Water Temp
 - Exhaust Temp
 - Oil Temp
 - Head Temp
 - Temperature (generic temperature – as in the example)
- select the sensor "AiM INFKL -20+120 C (X05TTS01B0)" (2)
- press "Save" (3)
- press "Transmit" (4)

