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AiM Infotech

AiM pressure sensor 0-5 bar  
Race Studio 3 configuration

Release 1.00

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# 1

## Introduction

Once pressure sensor 0-5 bar is physically connected to one of the device channels, 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)

The screenshot shows the RaceStudio3 3.20.13 software interface. The 'Channels' tab is active, displaying a table of sensor configurations. The table has columns for ID, Name, Function, Sensor, Unit, Freq, and Parameters. The 'Channel01' row is highlighted in blue, indicating it is selected.

ID	<input checked="" type="checkbox"/>	Name	Function	Sensor	Unit	Freq	Parameters
RPM	<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 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Spd2	<input type="checkbox"/>	Speed2	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Spd3	<input type="checkbox"/>	Speed3	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Spd4	<input 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	

- a configuration panel shows up
- select: "Pressure" function as well as the kind of pressure to sample among:
  - Oil Pressure
  - Brake Pressure
  - Wheel Brake Pressure
  - Fuel Pressure
  - Pressure (generic pressure – as in the example)
- select the sensor "AiM 0-5 bar (X05PSA00005B38)" or "AiM 0-5 bar (X05PSA00005B10)"
- select the channel sampling frequency, unit of measurement and number of decimal places
- press "Save"
- press "Transmit"

