

AiM Infotech

AiM pressure sensor  
0-5 bar  
Race Studio 3 configuration

Release 1.00

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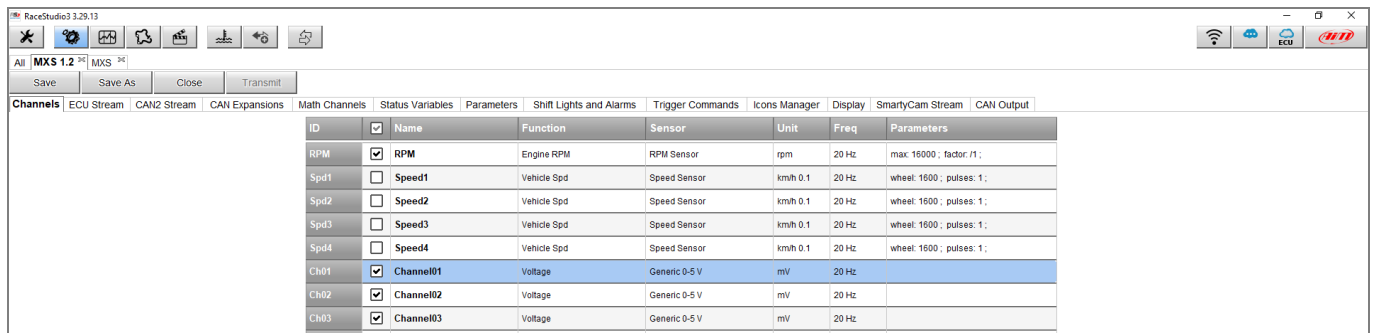
# Introduction

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 3.29.13 software interface. The 'Channels' tab is selected, displaying a table of configured channels. The table has columns for ID, Name, Function, Sensor, Unit, Freq, and Parameters. The 'Channel01' row is highlighted, showing it is configured for a Voltage sensor (Generic 0-5 V) with a unit of mV and a frequency of 20 Hz.

ID	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 (1) among:
  - Oil pressure
  - Brake Pressure
  - Wheel Brake Pressure
  - Pressure (generic pressure – as in the example)
- select the sensor "AiM 0-5 bar (X05PSA00005B38)" (2)
- press "Save" (3)
- press "Transmit" (4)

The screenshot shows the RaceStudio 3.25.13 interface. The 'Channels' tab is active, displaying a list of channels. Channel01 is selected, and its configuration panel is open. The 'Function' is set to 'Pressure' and the 'Sensor' is set to 'AiM 0 to 4 absolute bar (X05SNP31004A)'. The 'Save' button is highlighted. A list of available sensors is shown on the right, with 'AiM 0-5 bar (X05PSA00005B38)' highlighted.

ID	Name	Function	Sensor	Unit	Freq	Par
RPM	<input checked="" type="checkbox"/> RPM	Engine RPM	RPM Sensor	rpm	20 Hz	max
Spd1	<input type="checkbox"/> Speed1	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wh
Spd2	<input type="checkbox"/> Speed2	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wh
Spd3	<input type="checkbox"/> Speed3					
Spd4	<input type="checkbox"/> Speed4					
Ch01	<input checked="" type="checkbox"/> Channel01					
Ch02	<input checked="" type="checkbox"/> Channel02					
Ch03	<input checked="" type="checkbox"/> Channel03					
Ch04	<input checked="" type="checkbox"/> Channel04					
Ch05	<input checked="" type="checkbox"/> Channel05					
Ch06	<input checked="" type="checkbox"/> Channel06					
Ch07	<input checked="" type="checkbox"/> Channel07					
Ch08	<input checked="" type="checkbox"/> Channel08					
Acc1	<input checked="" type="checkbox"/> InlineAcc					
Acc2	<input checked="" type="checkbox"/> LateralAcc					
Acc3	<input checked="" type="checkbox"/> VerticalAcc					
Gyr1	<input checked="" type="checkbox"/> RollRate					
Gyr2	<input checked="" type="checkbox"/> PitchRate	Pitch Rate	AIM Internal Gyro	deg/s 0.1	50 Hz	
Gyr3	<input checked="" type="checkbox"/> YawRate	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	
OdD	<input checked="" type="checkbox"/> Odometer	Odometer Total	AIM ODO	km 0.1	1 Hz	
Luma	<input checked="" type="checkbox"/> Luminosity	Brightness	AIM Luminosity	%	1 Hz	