

AiM InfoTech

AiM pressure sensor
0-5 bar absolute
Race Studio 3 configuration

Release 1.01



Introduction

Once AiM pressure sensor 0-5 bar absolute 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.

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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 Race Studio 3 software interface. The 'Channels' tab is active, displaying a table of configured channels. The table has columns for ID, Name, Function, Sensor, Unit, Freq, and Parameters. The 'Channel01' row is selected and highlighted in blue.

ID	<input 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
 - Pressure (generic pressure – as in the example)
- select the sensor "AiM 0-5 bar abs (X05PSA00005B10A)" or "AiM 0-5 bar abs (X05PSA00005B38AK)"
- press "Save"
- press "Transmit"

ID	Name	Function	Parameters
RPM	<input checked="" type="checkbox"/> RPM	Engine RPM	
Spd1	<input type="checkbox"/> Speed1	Vehicle Spd	max: 16000 ; factor: 1 ;
Spd2	<input type="checkbox"/> Speed2	Vehicle Spd	wheel: 1600 ; pulses: 1 ;
Spd3	<input type="checkbox"/> Speed3	Vehicle Spd	wheel: 1600 ; pulses: 1 ;
Spd4	<input type="checkbox"/> Speed4	Vehicle Spd	wheel: 1600 ; pulses: 1 ;
Ch01	<input checked="" type="checkbox"/> Channel01	Channel Settings	
Ch02	<input checked="" type="checkbox"/> Channel02	Name	
Ch03	<input checked="" type="checkbox"/> Channel03	Name	
Ch04	<input checked="" type="checkbox"/> Channel04	Function	
Ch05	<input checked="" type="checkbox"/> Channel05	Function	
Ch06	<input checked="" type="checkbox"/> Channel06	Sensor	
Ch07	<input checked="" type="checkbox"/> Channel07	Sensor	
Ch08	<input checked="" type="checkbox"/> Channel08	Sampling Frequency	
Acc1	<input checked="" type="checkbox"/> InlineAcc	Unit of Measure	
Acc2	<input checked="" type="checkbox"/> LateralAcc	Unit of Measure	
Acc3	<input checked="" type="checkbox"/> VerticalAcc	Display Precision	
Gyr1	<input checked="" type="checkbox"/> RollRate	Unit of Measure	
Gyr2	<input checked="" type="checkbox"/> PitchRate	Unit of Measure	
Gyr3	<input checked="" type="checkbox"/> YawRate	Unit of Measure	
Accu	<input checked="" type="checkbox"/> GPS Accuracy	Unit of Measure	
Spd	<input checked="" type="checkbox"/> GPS Speed	Unit of Measure	
Alt	<input checked="" type="checkbox"/> Altitude	Unit of Measure	
Otd	<input checked="" type="checkbox"/> Odometer	Odometer Total	
Luma	<input checked="" type="checkbox"/> Luminosity	Brightness	