

AiM InfoTech

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

Release 1.00



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 RaceStudio3 3.29.13 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 (X05PSA00005B38A)"
- press "Save"
- press "Transmit"

ID	Name	Function	Parameters
RPM	<input checked="" type="checkbox"/> RPM	Engine RPM	max: 16000; factor: 1;
Spd1	<input type="checkbox"/> Speed1	Vehicle Spd	wheel: 1600; pulses: 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	AIM 0-5 bar abs (X05PSA00005B10A)	wheel: 1600; pulses: 1;
Ch02	<input checked="" type="checkbox"/> Channel02	AIM 0-10 bar (X05PSA00010B38)	
Ch03	<input checked="" type="checkbox"/> Channel03	AIM 0-100 bar (X05PSA00100B38)	
Ch04	<input checked="" type="checkbox"/> Channel04	AIM 0-160 bar (X05PSA00160B38)	
Ch05	<input checked="" type="checkbox"/> Channel05	AIM 0-15 psi (X05PSA00015P18)	
Ch06	<input checked="" type="checkbox"/> Channel06	AIM 0-50 psi abs (X05PSA00050P18A)	
Ch07	<input checked="" type="checkbox"/> Channel07	AIM 0-50 psi (X05PSA00050P18)	
Ch08	<input checked="" type="checkbox"/> Channel08	AIM 0-150 psi (X05PSA00150P18)	
Acc1	<input checked="" type="checkbox"/> InlineAcc	Unit of Measure	AIM 0-300 psi (X05PSA00300P18)
Acc2	<input checked="" type="checkbox"/> LateralAcc	Display Precision	AIM 0-2000 psi (X05PSA02000P18)
Acc3	<input checked="" type="checkbox"/> VerticalAcc		AIM 0 to 4 absolute bar (X05SNP31004A)
Gyr1	<input checked="" type="checkbox"/> RollRate		AIM 0-10 bar (X05SNP31010R)
Gyr2	<input checked="" type="checkbox"/> PitchRate		AIM 0-100 bar (X05SNP31100R)
Gyr3	<input checked="" type="checkbox"/> YawRate		AIM 0-160 bar (X05SNP31160R)
Accu	<input checked="" type="checkbox"/> GPS Accuracy		AIM 0-160 psi (X05SNPR30300U)
Spd	<input checked="" type="checkbox"/> GPS Speed		AIM VDO 0-2 bar
Alt	<input checked="" type="checkbox"/> Altitude		AIM VDO 0-5 bar
Otd	<input checked="" type="checkbox"/> Odometer	Odometer Total	AIM VDO 0-10 bar
Luma	<input checked="" type="checkbox"/> Luminosity	Brightness	MSI 0-100 psi