

AiM InfoTech

AiM pressure sensor
0-2000 PSI
Race Studio 3 configuration

Release 1.01



Introduction

Once pressure sensor 0-2000 PSI 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	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 0-2000 PSI (X05PSA02000P18K)" (2)
- press "Save" (3)
- press "Transmit" (4)

The screenshot shows the RaceStudio3 configuration window. The 'Channels' tab is active, and a 'Channel Settings' dialog box is open for 'Channel01'. The 'Function' is set to 'Pressure' and the 'Sensor' is set to 'AIM 0 to 2000 psi (X05PSA02000P18)'. The 'Save' button is visible at the bottom of the dialog. On the right, a list of available sensors is shown, with the selected sensor highlighted in red.

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	kmh 0.1	20 Hz	whe
Spd2	<input type="checkbox"/> Speed2	Vehicle Spd	Speed Sensor	kmh 0.1	20 Hz	whe
Spd3	<input type="checkbox"/> Speed3					whe
Spd4	<input checked="" type="checkbox"/> Speed4					whe
Ch01	<input checked="" type="checkbox"/> Channel01					whe
Ch02	<input checked="" type="checkbox"/> Channel02					whe
Ch03	<input checked="" type="checkbox"/> Channel03					whe
Ch04	<input checked="" type="checkbox"/> Channel04					whe
Ch05	<input checked="" type="checkbox"/> Channel05					whe
Ch06	<input checked="" type="checkbox"/> Channel06					whe
Ch07	<input checked="" type="checkbox"/> Channel07					whe
Ch08	<input checked="" type="checkbox"/> Channel08					whe
Acc1	<input checked="" type="checkbox"/> InlineAcc					whe
Acc2	<input checked="" type="checkbox"/> LateralAcc					whe
Acc3	<input checked="" type="checkbox"/> VerticalAcc					whe
Gyr1	<input checked="" type="checkbox"/> RollRate					whe
Gyr2	<input checked="" type="checkbox"/> PitchRate	Pitch Rate	AIM Internal Gyro	deg/s 0.1	50 Hz	whe
Gyr3	<input checked="" type="checkbox"/> YawRate	Yaw Rate	AIM Internal Gyro	deg/s 0.1	50 Hz	whe
Accu	<input checked="" type="checkbox"/> GPS Accuracy	GPS Accuracy	AIM GPS	mm	10 Hz	whe
Spd	<input checked="" type="checkbox"/> GPS Speed	Vehicle Spd	AIM GPS	kmh 0.1	10 Hz	whe
Alt	<input checked="" type="checkbox"/> Altitude	Altitude	AIM GPS	m	10 Hz	whe
OdD	<input checked="" type="checkbox"/> Odometer	Odometer Total	AIM ODO	km 0.1	1 Hz	whe
Luma	<input checked="" type="checkbox"/> Luminosity	Brightness	AIM Luminosity	%	1 Hz	whe