

AiM InfoTech

AiM pressure sensor
0-150 PSI
Race Studio 3 configuration

Release 1.00



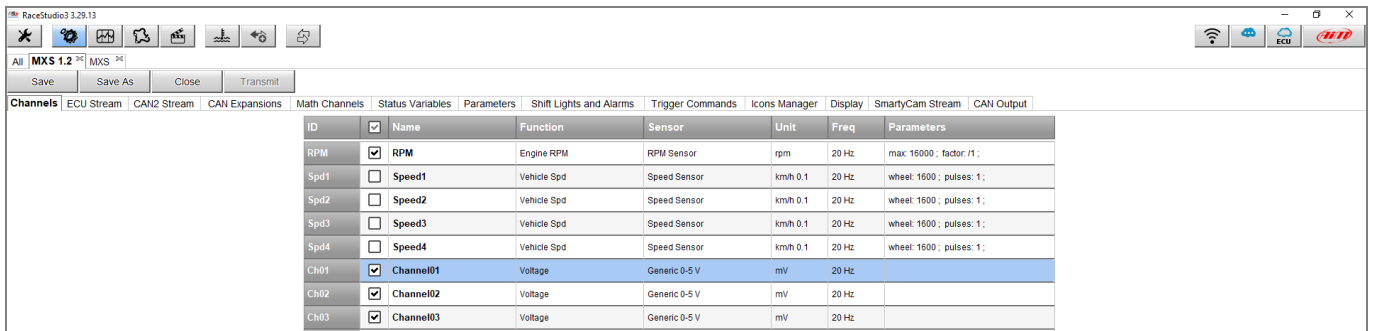
Introduction

Once pressure sensor 0-150 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

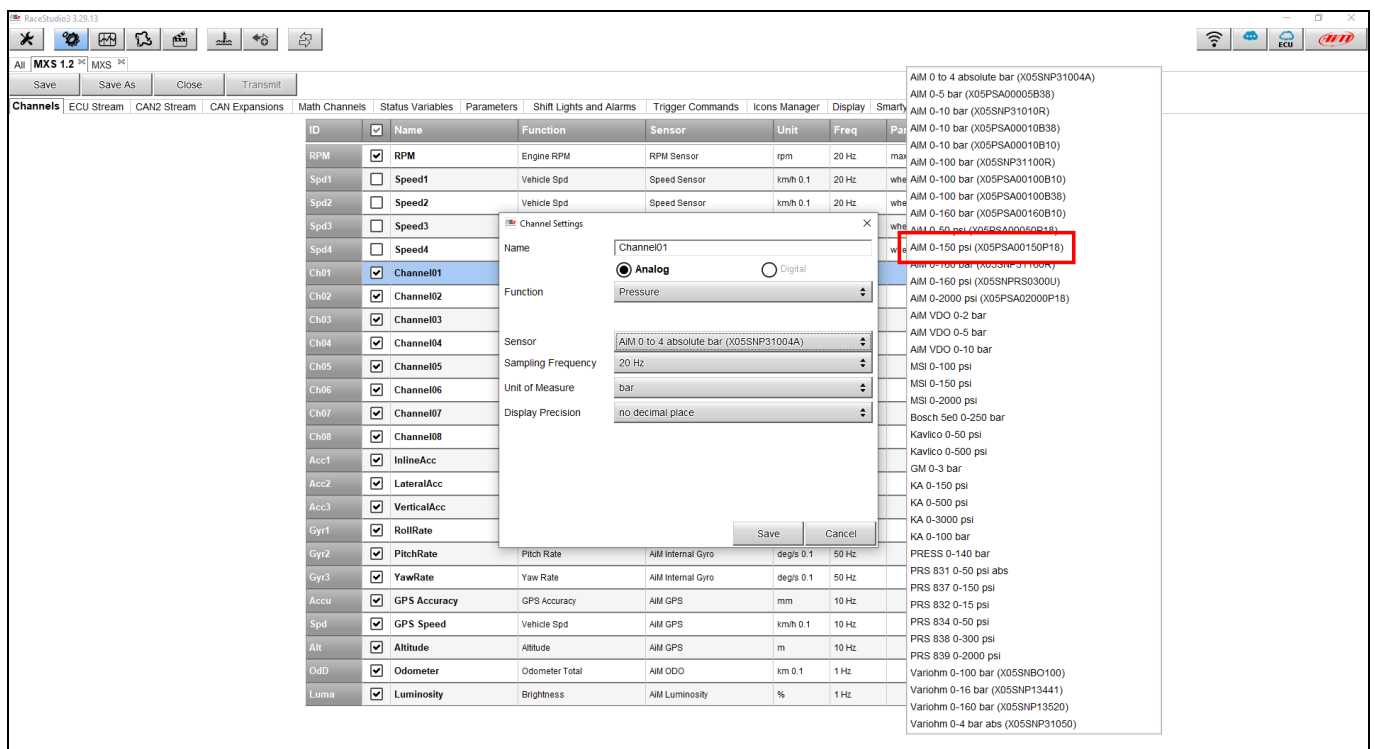
- with the device switched on and connected to the PC run the software and select the device the sensor is connected to
- select the configuration the sensor is to be loaded on or create a new one pressing “New” and select “Channels” layer as here below
- select the channel where to set the sensor (in the example below channel01)



The screenshot shows the 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 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 0-150 PSI (X05PSA00150P18)" (2)
- press "Save" (3)
- press "Transmit" (4)



The screenshot shows the RaceStudio3 3.29.13 interface. The 'Channels' tab is active, displaying a list of channels. Channel01 is selected, and its configuration panel is open. The panel shows the following settings:

- Name: Channel01
- Function: Pressure
- Sensor: AiM 0-150 psi (X05PSA00150P18) (highlighted with a red box)
- Sampling Frequency: 20 Hz
- Unit of Measure: bar
- Display Precision: no decimal place

The 'Save' button is visible at the bottom of the configuration panel.