

AiM InfoTech

AiM pressure sensor  
0-300 PSI  
Race Studio 3 configuration

Release 1.00

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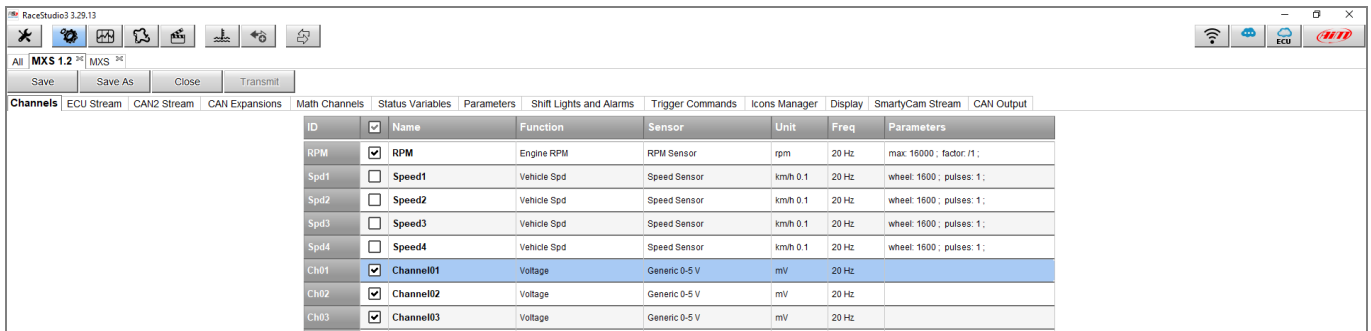
# Introduction

Once pressure sensor 0-300 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.

## 2

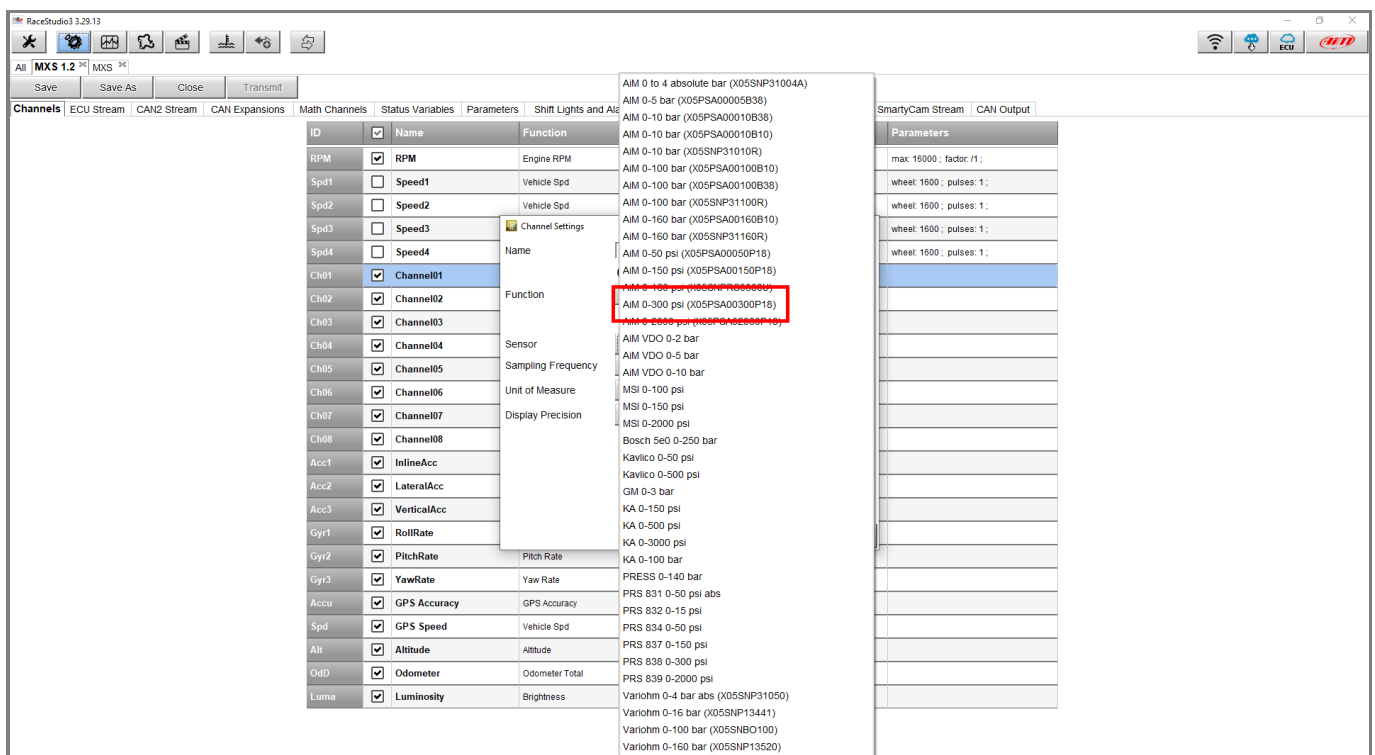
## Setup with Race Studio 3

- 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)



ID	<input checked="" 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 **(1)** among:
  - Oil pressure
  - Brake Pressure
  - Wheel Brake Pressure
  - Pressure (generic pressure – as in the example)
- select the sensor "AiM 0-300 PSI (X05PSA00300P18)" **(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 and their configurations. A context menu is open for 'Channel01', showing the 'Function' and 'Sensor' options. The 'Function' is set to 'Pressure' and the 'Sensor' is set to 'AIM 0-300 psi (X05PSA00300P18)'. The 'Save' button is highlighted in the top bar.

ID	Name	Function
RPM	RPM	Engine RPM
Spd1	Speed1	Vehicle Spd
Spd2	Speed2	Vehicle Spd
Spd3	Speed3	
Spd4	Speed4	
Ch01	Channel01	
Ch02	Channel02	
Ch03	Channel03	
Ch04	Channel04	
Ch05	Channel05	
Ch06	Channel06	
Ch07	Channel07	
Ch08	Channel08	
Acc1	InlineAcc	
Acc2	LateralAcc	
Acc3	VerticalAcc	
Gyr1	RollRate	
Gyr2	PitchRate	
Gyr3	YawRate	
Accu	GPS Accuracy	
Spd	GPS Speed	
Alt	Altitude	
OdD	Odometer	
Luma	Luminosity	