AiM InfoTech

## AiM pressure sensor 0-300 PSI Race Studio 2 configuration

#### Release 1.00





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### 1 Introduction

Once AiM pressure sensor 0-300 PSI is physically connected to one of the device analog channels, it has to be loaded in the related configuration using AiM configuration software. In this datasheet it is loaded using **Race Studio 2** software.

You can proceed in two ways: importing the sensor configuration file, downloading it from the Products – Sensors (car/bike) section of our website www.aim-sportline.com, or creating a custom sensor.

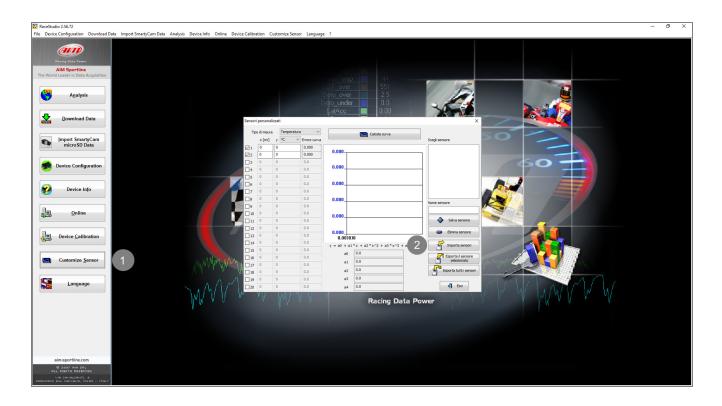


## 2 SCF\* file import

To obtain the sensor configuration file, enter the Products – Sensors (auto/moto) section of the AiM website www.aim-sportline.com, and click the link referred to the sensor you own (following image). Once the download is finished, save the file in a PC folder.

Turbo pressure sensor from -1 to 3 Bar	X05SNP31004A	19	Datasheet	RS3 conf	RS2 conf	SCF*
Pressure sensor 0-10 bar/0-145 PSI	X05SNP31010R	9	Datasheet	RS3 conf	RS2 conf	SCF*
Pressure sensor 0-100 bar/0-1450 PSI	X05SNP31100R	×	Datasheet	RS3 conf	RS2 conf	SCF*
Pressure sensor 0-160 bar/0-2320 PSI	X05SNP31160R		Datasheet	RS3 conf	RS2 conf	SCF*
VDO pressure sensor 0-5 Bar	X05SNBO05	<b>&gt;</b>	Datasheet	RS3 conf	RS2 conf	
VDO pressure sensor 0-10 Bar	X05SNBO00		Datasheet	RS3 conf	RS2 conf	

To import the file in Race Studio 2, making it available in the pressure sensors list, from the Customize Sensors window (1), click Import Sensors (2) and select the saved file.



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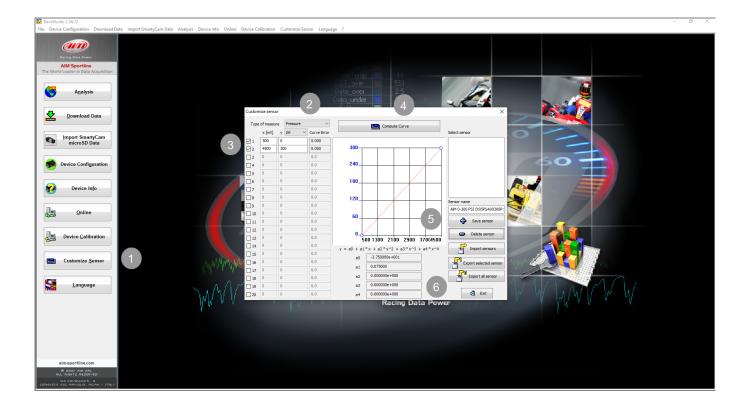


## 3 Custom sensor creation

- create a custom sensor pressing "Customize sensor" (1)
- select the type of measure (Pressure) and the measure unit (PSI) (2)
- complete the first two rows of the table on the left as follows (3):

X [mV]	Y [PSI]
500	0
4500	300

press "Compute curve" (4), fill in sensor name - in the example "AiM 0-300 PSI (X05PSA00300P18)"
– and press "Save sensor" (5); press "Exit" (6)



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# 4 Analog channel configuration

To set the sensor in the device configuration:

- enter "Channels" tab
- set the sensor on a channel selecting "AiM 0-300 PSI (X05PSA00300P18)" in sensor type column of the desired channel and transmit the configuration to the device.

	System manager													
Racing Data Power	Transmi		Receive	🗭 CAN-Net info	SmartyCar set	n Functions	🚺 Set acq	uisition system time	]					
AIM Sportline	Current configuration								_					
rld Leader in Data Acquisition	Installation name	Data logger type	Ecu	Lap Timer	Vehicle		Available		Time with GPS	Total frequency	Master free	quency	Expansions frequency	Tot. Expansions
	DEFAULT	MXL PISTA	None - None	Optical	DEFAUL	r	8.48.56 (	h.m.s)	3.58.06 (h.m.s)	131 (Hz)	131 (Hz)		0 (Hz)	0
A <u>n</u> alysis	Speed_1		CAN-Expansions configura	or										
Download Data	Wheel circumference Pulses per wheel revolu													
Import SmartyCam microSD Data	Channel identifier	Enabled/disabled	Channel name			Sampling freque	ency	Sensor type		,	Measure unit	Low s	cale	ligh scale
	RPM	Enabled	Engine			10 Hz		Engine revolution	n speed		pm	0	2	0000
	SPD_1	Enabled	Speed_1			10 Hz		Speed			m/h .1	0.0 لــــ		50.0
Device Configuration	CH_1	Enabled	Channel_1			10 Hz		Generic linear 0-		<u>ا ت</u>		<b>.</b> 00	5	
	CH_2	Enabled	Channel_2			10 Hz		Generic linear 0-		× v		I 0.0	5	
	CH_3	Enabled	Channel_3			10 Hz		Generic linear 0-		v		<b>I</b> 0.0	5	
Device Info	CH_4	Enabled	Channel_4			10 Hz		Generic linear 0-		~ \		즈 0.0	5	
	CH_S	Enabled	Channel_5			10 Hz		AIM Lambda LCU MSI 0-2000 PSI se	U-ONE ( 0,65 - 1,6 lambda)		1.1	<b>I</b> 0.0	5	
	CH_6	Enabled	Channel_6			10 Hz	-	Fuel level	ensor		1.1	<b>I</b> 0.0	5	
Online	CH_7	Enabled	Channel_7			10 Hz	-	Fuel level AVIORACE_SP35 AEM 30 PSI Press	Pressure sensor		1.1	≥ 0.0	5	
	CH_8	Enabled	Channel_8			10 Hz					1.1	<b></b> 0.0	5	
	CALC_GEAR	Enabled	Calculated_Gear			10 Hz	-	Kavlico 50 PSI INHg GM 3 Bar Map se	ess sensor			0	9	
Device Calibration	ACC_1 LOG TMP	Enabled	LatAcc			10 Hz 10 Hz		KA 0-150 PSI Pres AEM 30 1000 PSI	ss sensor		L.01 C	-3.00	3	
	BATT	Enabled	Datalogger_Temp				 	AEM 30 1000 PSI	Press sensor 36751 Temp sensor		C (.1	5.0		5.0
	BATT	M Enabled	Battery			1 Hz	-	Texsense INFKL 8	800 C IR Temp sensor	· · · · · · · · · · · · · · · · · · ·		5.0	1	5.0
Customize <u>S</u> ensor									I SI SI IPSA00010B10) IPSA00005B38) ISPSA000050P18) (SPSA000050P18) (SPSA000050P10)					
aim-sportline.com (9) 2007 nit sit. nit. Nights reserved via ogval.canti, o 3 cut. navidi.co. mit.an - 174.cv							[	Aim 0-150 bai (x Aim 0-150 bar (X Aim 0-300 PSI (x)	05PSA00150P18) (05PSA00160B10)	×				