AiM InfoTech

# AiM pressure sensor 0-50 PSI absolute Race Studio 2 configuration

### Release 1.00





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### 1 Introduction

Once AiM pressure sensor 0-50 PSI absolute 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.

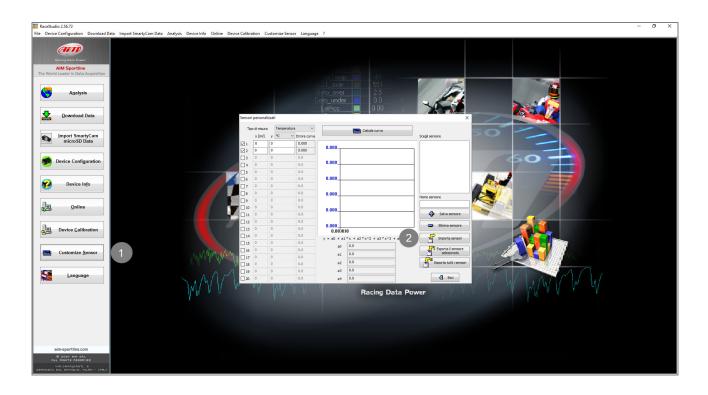


## 2 SCF\* file import

To obtain the sensor configuration file, enter the Products – Sensors (car/bike) 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	۲	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	-14.5
4500	35.5

 press "Compute curve" (4), fill in sensor name - in the example "AiM 0-50 PSI abs (X05PSA00050P18A)" – 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 0-50 PSI abs (X05PSA00050P18A)" in sensor type column of the desired channel and transmit the configuration to the device.

	🕄 Şytem manager										
Racing Data Power	Trasmission		.ettura	Informazioni rete-CAN	Imposta Funzioni per SmartyCam	Imposta l'orologio del sistema d'acquisizione					
AIM Sportline	Configurazione selezionata				,						
rld Leader in Data Acquisition	Nome installazione	Tipo centralina	Ecu	Lap Timer	Nome velcolo	Tempo disponibile	Tempo con GPS	Frequenza totale	Frequenza maste		Tot. Espansioni
	DEFAULT	MXL PISTA	None - None	Ottico	DEFAULT	5.44.43 (h.m.s)	3.11.56 (h.m.s)	201 (Hz)	121 (Hz)	80 (Hz)	2
Analisi		anali Configurazione sistema	Configuratore espansioni v	a CAN							
Scarico dati	Speed_1 Circonferenza ruota (	mm) 1666									
	Impulsi per giro ruota	1									
Importa dati da microSD SmartyCam	ID	Abil.	Nome canale		Freq.	Sensore usato		U	nità	Inizioscala	Fondoscala
	RPM	M ABILITATO	Engine		10 Hz	Giri motore		rp	im	0	20000
	SPD_1	ABILITATO	Speed_1		10 Hz	- Velocità			m/h .1 🔹	0.0	250.0
Configurazione dispositivo	CH_1	ABILITATO	Channel_1		10 Hz	🖃 Generico linear	re 0-5 V	- V	.1 💌	J 0.0 L	5.0
uispositivo	CH_2	ABILITATO	Channel_2		10 Hz	I Generico linear	re 0-5 V	- V	.1 .	0.0	5.0
	CH_3	ABILITATO	Channel_3		10 Hz	🖃 Generico linear	re 0-5 V	• V	.1 🖃	0.0	5.0
Informazioni Dispositivo	CH_4	ABILITATO	Channel_4		10 Hz	🗹 Generico linear	re 0-5 V	~ <mark>V</mark>	.1	0.0 L	5.0
Dispositivo	CHUS	ABILITATO	Channel_5		10 Hz	Fork		~ V	.1 💽	J 0.0 L	5.0
	CH_6	ABILITATO	Channel_6		10 Hz	<ul> <li>pressione frence</li> </ul>	o ant	v	.1 💌	J 0.0 L	5.0
Online	CH_7	ABILITATO	Channel_7		10 Hz	pressione frend pressione frend	0-150	V			5.0
	CH_8	ABILITATO	Channel_8		10 Hz	pressione frence     pressione frence     AiM 0-100 bar		v	.1 🖻		5.0
	CALC_GEAR	DISABILITATO	Calculated_Gear		10 Hz			#			9
Calibrazione dispositivo	ACC_1	ABILITATO	LatAcc		10 Hz	AiM10BarOilPS	iens	-	.01		3.00
anspositivo	LOG_TMP	M ABILITATO	Datalogger_Temp		10 Hz	SDP2000-L Damper_F		-0			50
	BATT	M ABILITATO	Battery		1 Hz	Damper_R PRS-839 2K		v	.1	5.0	15.0
<u>Sensori personalizzati</u>						Porsche VDO 0 Delco 3 Bar MA Bosch High Sp	7b				
						MM 594 LF RH					
Lingua						MM 594 RF RH MM 594 LR RH					
						MM 594 RR RH					
						Black Diamond RG Airbox 1 Ba	I 2K Brake Pressure				
						M AERO 4					
						RG Ultrasonic RG Ultrasonic F	Right				
						RG Ultrasonic L	.eft				
						Boost1 Unknown_011 AiM 0-5 bar ab	s (X05PSA00005B10A)				
						Aller 0 S bar ab	bs (X05PSA00050P18A)	~			
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