AiM Infotech

Configuration with Race Studio 2 of AiM pressure sensor 0-15 PSI

Release 1.00

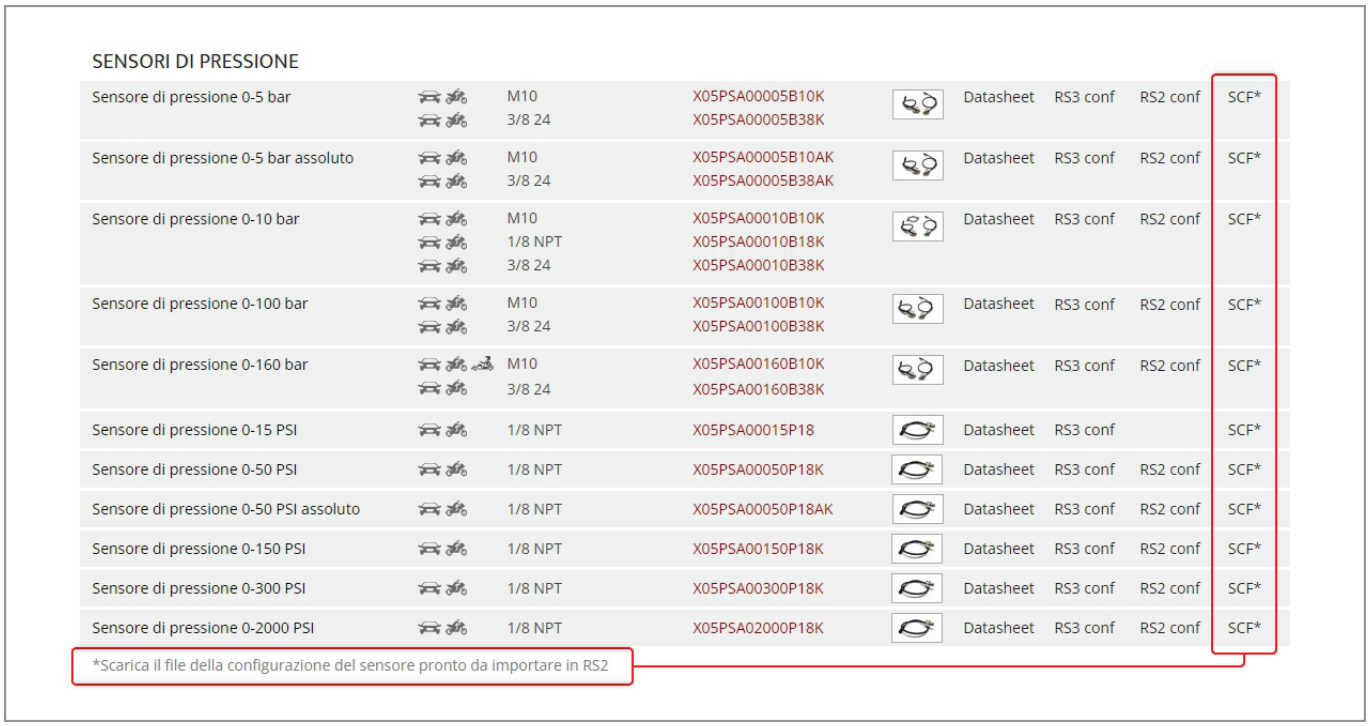
1 Introduction

Once AiM pressure sensor 0-15 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 www.aim-sportline.com Products –> Sensors –> Pressure and click the link of your sensor. Once the file downloaded, save it in a PC folder.



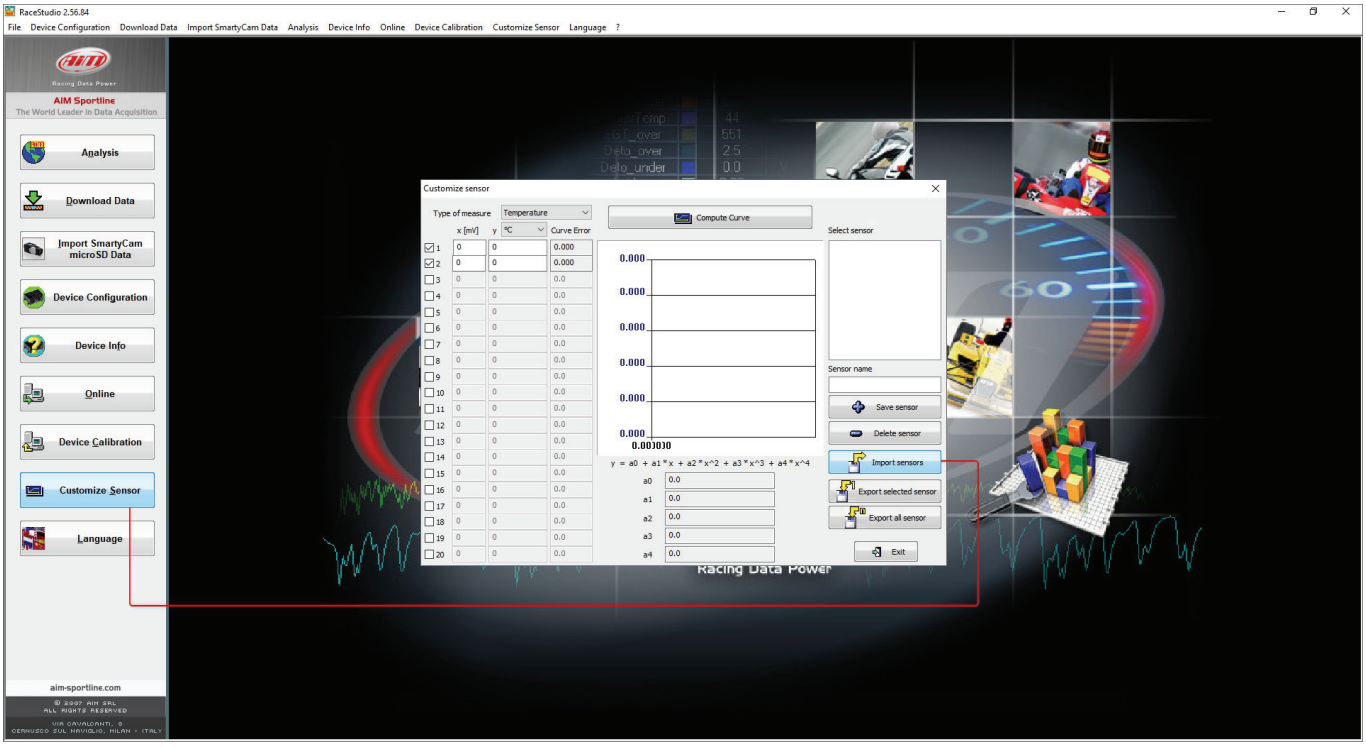
SENSORI DI PRESSIONE

Sensore di pressione 0-5 bar	M10 3/8 24	X05PSA00005B10K X05PSA00005B38K		Datasheet	RS3 conf	RS2 conf	SCF*
Sensore di pressione 0-5 bar assoluto	M10 3/8 24	X05PSA00005B10AK X05PSA00005B38AK		Datasheet	RS3 conf	RS2 conf	SCF*
Sensore di pressione 0-10 bar	M10 1/8 NPT 3/8 24	X05PSA00010B10K X05PSA00010B18K X05PSA00010B38K		Datasheet	RS3 conf	RS2 conf	SCF*
Sensore di pressione 0-100 bar	M10 3/8 24	X05PSA00100B10K X05PSA00100B38K		Datasheet	RS3 conf	RS2 conf	SCF*
Sensore di pressione 0-160 bar	M10 3/8 24	X05PSA00160B10K X05PSA00160B38K		Datasheet	RS3 conf	RS2 conf	SCF*
Sensore di pressione 0-15 PSI	1/8 NPT	X05PSA00015P18		Datasheet	RS3 conf		SCF*
Sensore di pressione 0-50 PSI	1/8 NPT	X05PSA00050P18K		Datasheet	RS3 conf	RS2 conf	SCF*
Sensore di pressione 0-50 PSI assoluto	1/8 NPT	X05PSA00050P18AK		Datasheet	RS3 conf	RS2 conf	SCF*
Sensore di pressione 0-150 PSI	1/8 NPT	X05PSA00150P18K		Datasheet	RS3 conf	RS2 conf	SCF*
Sensore di pressione 0-300 PSI	1/8 NPT	X05PSA00300P18K		Datasheet	RS3 conf	RS2 conf	SCF*
Sensore di pressione 0-2000 PSI	1/8 NPT	X05PSA02000P18K		Datasheet	RS3 conf	RS2 conf	SCF*

*Scarica il file della configurazione del sensore pronto da importare in RS2

To import the file in Race Studio 2, making it available in the pressure sensors list:

- Run Race Studio 2
- Press Customize sensor on the left keyboard
- “customize sensor” panel is prompted: press “Import Sensors”
- browse your PC and select the file you downloaded



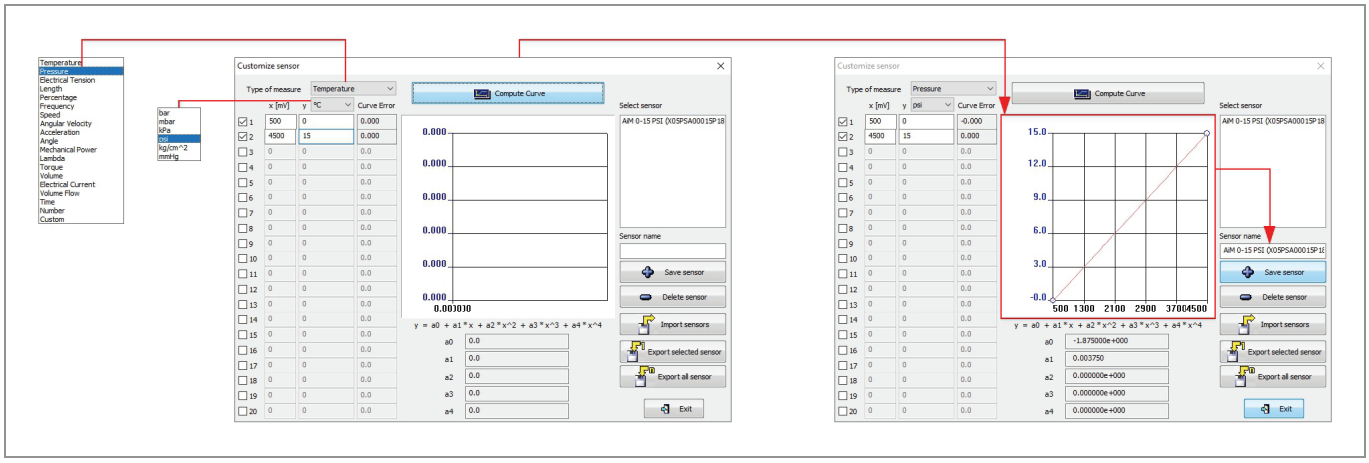
3
Custom sensor creation

To create a custom sensor, once pressed “Custom sensor” you need to set the related.

- select:
    - type of measure: Pressure
    - measure unit: PSI
- complete the first two rows of the table top left of the panel as follows:

X [mV]	Y [PSI]
500	0
4500	50

- press "Compute curve"
- fill in sensor name – In the example “AiM 0-15 PSI (X05PSA00015P18)”
- press "Save sensor" and "Exit" on the panel right keyboard



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 (X05PSA00015P18)” in sensor type column of the desired channel and transmit the configuration to the device.