

AiM Infotech

Pressure sensor
0-160 bar/0-2320 PSI
Race Studio 3 configuration

Release 1.00

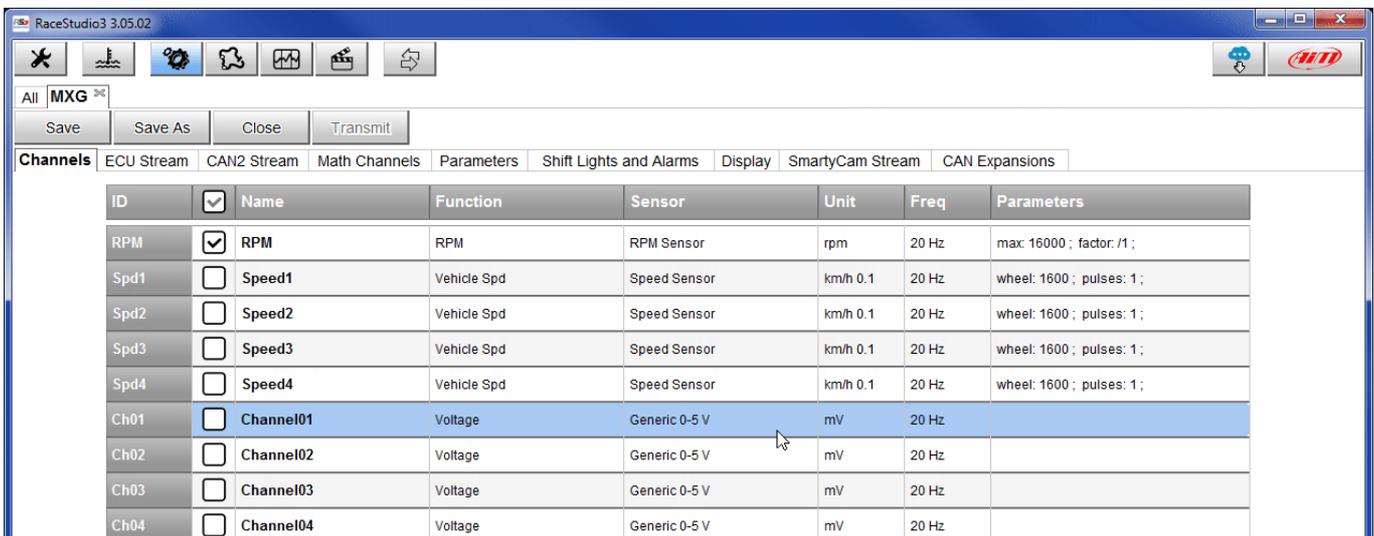


1 Introduction

Once pressure sensor 1-160 bar is physically connected to one of the channels of AiM device 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 a PC run the software and select the logger the sensor is connected to;
- select the configuration the sensor is to be loaded on or create a new one pressing "New" and select "Channel" layer shown here below;
- select the channel where to set the sensor (in the example channel01) and click on the related cell of "Sensor" column;



- 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 0-160 bar (X05SNP31160R)" (2)
- press "Save" (3)
- press "Transmit" (4)

The screenshot shows the RaceStudio3 3.05.02 interface. The 'Channels' tab is active, displaying a table of channels. A 'Channel Settings' dialog box is open for 'Channel01', showing the configuration for a pressure sensor. The 'Function' is set to 'Pressure' (1), the 'Sensor' is 'AIM 0-160 bar (X05SNP31160R)' (2), and the 'Save' button is highlighted (3). The 'Transmit' button in the main interface is also highlighted (4).

ID	Name	Function	Sensor	Unit	Freq	Parameters
RPM	<input checked="" type="checkbox"/> RPM	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 type="checkbox"/> Channel02	Voltage				
Ch03	<input type="checkbox"/> Channel03	Voltage				
Ch04	<input type="checkbox"/> Channel04	Voltage				
Ch05	<input type="checkbox"/> Channel05	Voltage				
Ch06	<input type="checkbox"/> Channel06	Voltage				
Ch07	<input type="checkbox"/> Channel07	Voltage				
Ch08	<input type="checkbox"/> Channel08	Voltage				
AccX	<input checked="" type="checkbox"/> AccelerometerX	Inline Accel				
AccY	<input checked="" type="checkbox"/> AccelerometerY	Lateral Accel				
AccZ	<input checked="" type="checkbox"/> AccelerometerZ	Vertical Accel				
GyrX	<input checked="" type="checkbox"/> GyroX	Roll Rate				
GyrY	<input checked="" type="checkbox"/> GyroY	Pitch Rate				
GyrZ	<input checked="" type="checkbox"/> GyroZ	Yaw Rate				
Spd	<input checked="" type="checkbox"/> GPS Speed	Vehicle Spd	AIM GPS	km/h 0.1	10 Hz	
OdD	<input checked="" type="checkbox"/> Odometer	Odometer Total	AIM ODO	km 0.1	1 Hz	