



AiM Infotech

Car / Bike accelerometer Race Studio 2 configuration

Release 1.00



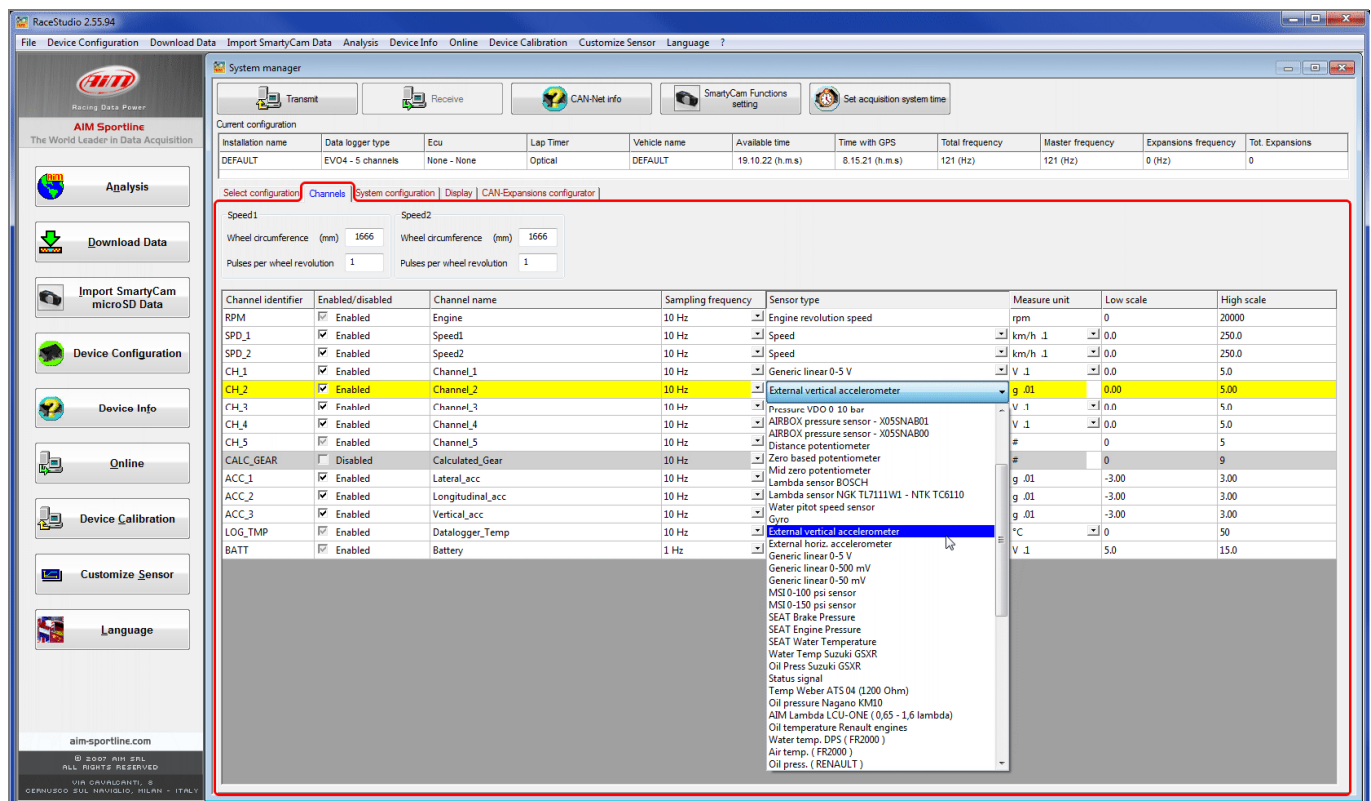
1 Introduction

When the accelerometer is physically connected to a channel of your device it is necessary to load it in the device configuration using AiM configuration software. In this datasheet it is loaded using AiM **Race Studio 2** configuration software.

2 Configuration with Race Studio 2

To load the sensor in AiM device configuration:

- run the software, select the device (in the example EVO4) choose the configuration the sensor is to be loaded on and enter "Channels" layer
- select the channel where to set the sensor on (in the example channel 2) and select the accelerometer you are using in "Sensor Type" column as shown below.





The sensor is set on the desired channel. Transmit the configuration to the device pressing "Transmit".

The screenshot shows the RaceStudio 2.55.94 System manager window. The 'Transmit' button is highlighted with a red box. Below it, the 'Current configuration' table shows various system parameters. The 'Channels' tab is selected, displaying a table of channel configurations. The row for 'CH_2' is highlighted in yellow, and its 'Sensor type' dropdown menu is open, showing 'External vertical accelerometer' selected. A red box highlights the sensor type dropdown for CH_2.

Channel identifier	Enabled/disabled	Channel name	Sampling frequency	Sensor type	Measure unit	Low scale	High scale
RPM	<input checked="" type="checkbox"/> Enabled	Engine	10 Hz	Engine revolution speed	rpm	0	20000
SPD_1	<input checked="" type="checkbox"/> Enabled	Speed1	10 Hz	Speed	km/h .1	0.0	250.0
SPD_2	<input checked="" type="checkbox"/> Enabled	Speed2	10 Hz	Speed	km/h .1	0.0	250.0
CH_1	<input checked="" type="checkbox"/> Enabled	Channel_1	10 Hz	Generic linear 0-5 V	.1	0.0	5.0
CH_2	<input checked="" type="checkbox"/> Enabled	Channel_2	10 Hz	External vertical accelerometer	g .01	0.00	5.00
CH_3	<input checked="" type="checkbox"/> Enabled	Channel_3	10 Hz	Generic linear 0-5 V	.1	0.0	5.0
CH_4	<input checked="" type="checkbox"/> Enabled	Channel_4	10 Hz	Generic linear 0-5 V	V .1	0.0	5.0
CH_5	<input checked="" type="checkbox"/> Enabled	Channel_5	10 Hz	Generic linear 0-5 V	V .1	0.0	5.0
CALC_GEAR	<input type="checkbox"/> Disabled	Calculated_Gear	10 Hz	Gear potentiometer	#	0	5
ACC_1	<input checked="" type="checkbox"/> Enabled	Calculated_Gear	10 Hz	Calculated Gear		0	9
ACC_2	<input checked="" type="checkbox"/> Enabled	Lateral_acc	10 Hz	Lateral accelerometer	g .01	-3.00	3.00
ACC_3	<input checked="" type="checkbox"/> Enabled	Longitudinal_acc	10 Hz	Longitudinal accelerometer	g .01	-3.00	3.00
ACC_4	<input checked="" type="checkbox"/> Enabled	Vertical_acc	10 Hz	Vertical internal accelerometer	g .01	-3.00	3.00
LOG_TMP	<input checked="" type="checkbox"/> Enabled	Datalogger_Temp	10 Hz	Cold joint	°C	0	50
BATT	<input checked="" type="checkbox"/> Enabled	Battery	1 Hz	Battery	V .1	5.0	15.0