

## Race Studio 2

# Alarm light signal configuration with RS2

### Question:

How can I configure the alarm light signal (neutral gear, oil, side stand etc) with RS2?

### Answer:

The alarm light signal configuration can be performed this way:

- run RS2.
- click "Device Configuration" and choose the device the sensor will be connected to, then click "Go To" (in the following example, EVO4 have been selected).



## Race Studio 2

- select an existing configuration or create a new one clicking “New”
- select “Channels” layer: it shows all the device channels with their functions

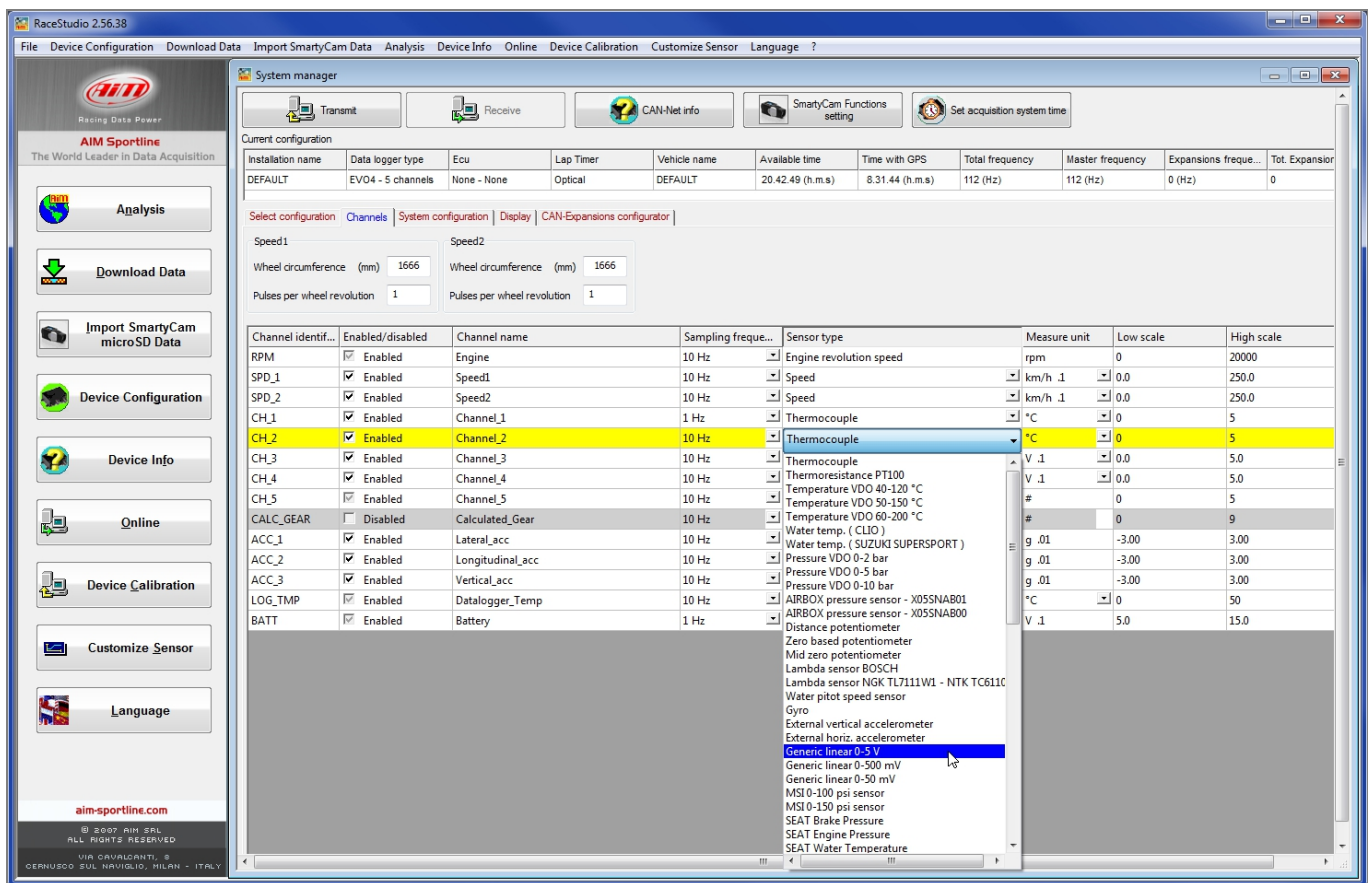
The screenshot shows the RaceStudio 2.56.38 software interface. The main window is titled "System manager" and contains several tabs: "Channels", "System configuration", "Display", and "CAN-Expansions configurator". The "Channels" tab is active, displaying a table of channel configurations. The table has columns for "Channel identif...", "Enabled/disabled", "Channel name", "Sampling freque...", "Sensor type", "Measure unit", "Low scale", and "High scale". The "RPM" channel is highlighted in yellow. Below the table, there are input fields for "Wheel circumference (mm)" and "Pulses per wheel revolution" for two speed channels (Speed1 and Speed2).

Channel identif...	Enabled/disabled	Channel name	Sampling freque...	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	1 Hz	Thermocouple	°C	0	5
CH_2	<input checked="" type="checkbox"/> Enabled	Channel_2	10 Hz	Thermocouple	°C	0	5
CH_3	<input checked="" type="checkbox"/> Enabled	Channel_3	10 Hz	Generic linear 0-5 V	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	Gear potentiometer	#	0	5
CALC_GEAR	<input type="checkbox"/> Disabled	Calculated_Gear	10 Hz	Calculated Gear	#	0	9
ACC_1	<input checked="" type="checkbox"/> Enabled	Lateral_acc	10 Hz	Lateral accelerometer	g .01	-3.00	3.00
ACC_2	<input checked="" type="checkbox"/> Enabled	Longitudinal_acc	10 Hz	Longitudinal accelerometer	g .01	-3.00	3.00
ACC_3	<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

## Race Studio 2

- click “Sensors type” column of the analog channel the sensor is connected to and select “Generic Linear 0-5 V” or “Status Signal”.
  - **Generic Linear 0-5 V:** its unit of measure is Volt, shown with zero or one decimal place. If using a logger with data recording you can set its sampling frequency.
  - **Status Signal:** the value is expressed in digits in a 0-1000 range, corresponding to 0-5000 mV.

For both functions, user can modify the channel name, low/high scale (these last two to dimension the graphic visualization scale in Race Studio Analysis).



## Race Studio 2

To set the alarm LEDs of AiM device select the LED in display configuration layer, that are called:

- “Display” for EVO3Pista/Pro and EVO4.
- “System Configuration” for the MXL.

Choose which LED among these available will show the alarm signal, set its reference channel and its threshold.

- Generic linear 0-5 V: threshold 2V or 3V.
- Status signal: threshold 200 or 500.

Here below an example of “Channel for alarm” configuration with EVO4 and MXL Dash is shown.

