

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).





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

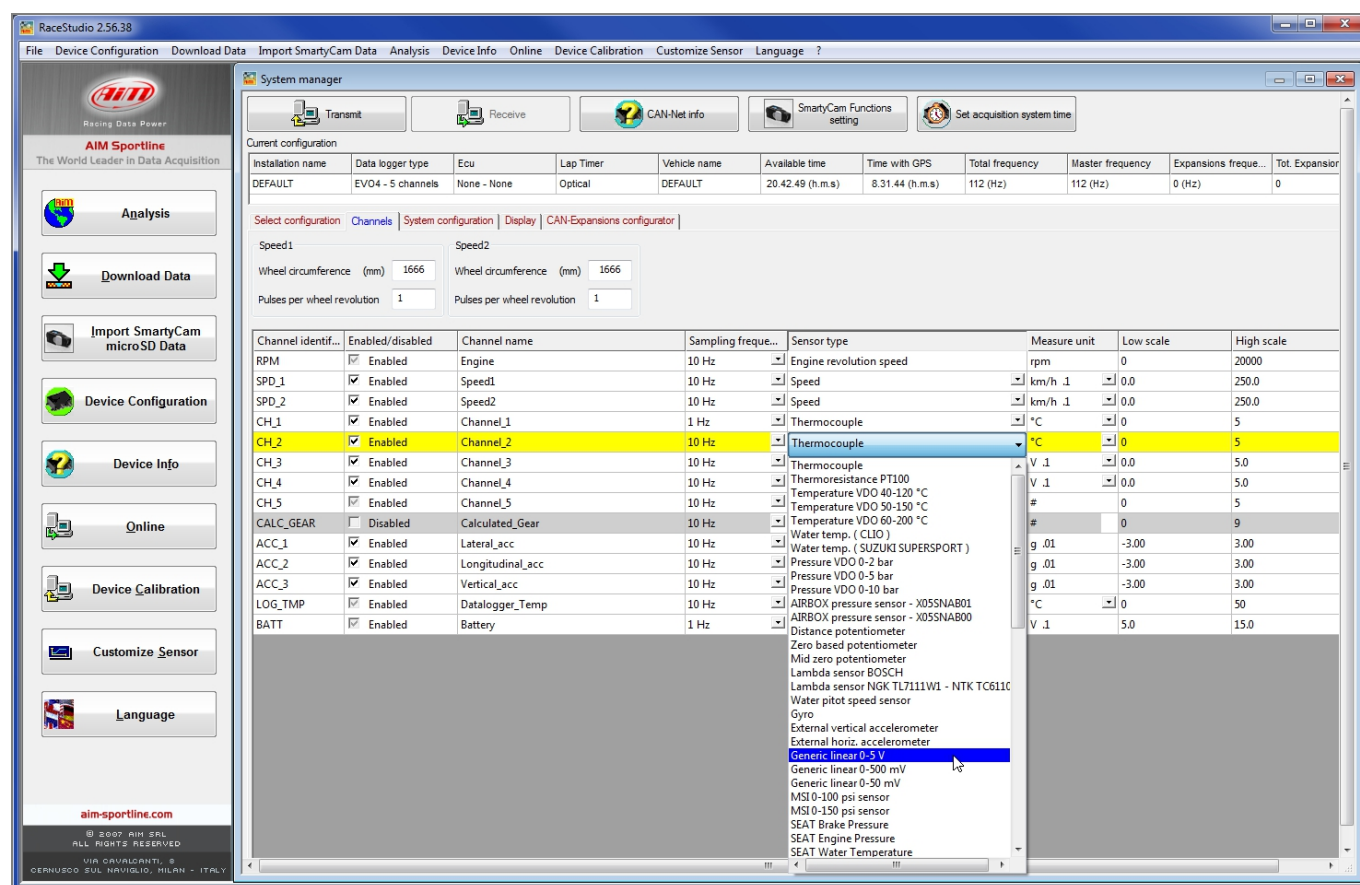
The screenshot displays the RaceStudio 2.56.38 software interface. The main window is titled "System manager" and contains several tabs: "Select configuration", "Channels", "System configuration", "Display", and "CAN-Expansions configurator". The "Channels" tab is active, showing a table of configured channels. The table has columns for Channel identifier, Enabled/disabled status, Channel name, Sampling frequency, Sensor type, Measure unit, Low scale, and High scale. The channels listed include RPM, SPD_1, SPD_2, CH_1, CH_2, CH_3, CH_4, CH_5, CALC_GEAR, ACC_1, ACC_2, ACC_3, LOG_TMP, and BATT. The RPM channel is highlighted in yellow. The interface also includes a sidebar with navigation buttons for Analysis, Download Data, Import SmartyCam microSD Data, Device Configuration, Device Info, Online, Device Calibration, Customize Sensor, and Language. The bottom of the window shows the AIM Sportline logo and copyright information.

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

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- 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).





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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.

