

FAQ

Frequently asked questions

## Alarm light signal configuration with RS3







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# Alarm light signal configuration with RS3

### **Question:**

How do I configure the alarm sensor through RS3?

#### Answer:

The alarm sensor configuration on your AiM device can be performed this way:

- run RS3.
- enter "Configuration" section and select the configuration to be modified or create a new one if necessary (in the example, an EVO4S configuration have been chosen).
- "Channels" layer appears showing all the available channels with their functions.

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EVO4S <sup>36</sup>										
Save Save As Close Transmit										
annels ECU Stream Math Channels Parameters	Output Signals	Dashe	s SmartyCam Stream C	AN Expansions CAN Output	ut					
	ID	-	Name	Function	Sensor	Unit	Freq	Parameters		
	RPM	✓	RPM	Engine RPM	RPM Sensor	rpm	20 Hz	max: 16000 ; factor: /1 ;	]	
	Spd1		Speed1	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;		
	Spd2	✓	Speed2	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;		
	Ch01	◄	Channel01	Voltage	Generic 0-5 V	mV	20 Hz			
	Ch02	✓	Channel02	Voltage	Generic 0-5 V	mV	20 Hz			
	Ch03	✓	Channel03	Voltage	Generic 0-5 V	mV	20 Hz			
	Ch04	✓	Channel04	Voltage	Generic 0-5 V	mV	20 Hz			
	Ch05		Channel05	Voltage	Generic 0-5 V	mV	20 Hz			
	Acc1	✓	InlineAcc	Inline Accel	AiM Internal Accelerometer	g 0.01	50 Hz			
	Acc2		LateralAcc	Lateral Accel	AIM Internal Accelerometer	g 0.01	50 Hz		_	
	Acc3	✓	VerticalAcc	Vertical Accel	AiM Internal Accelerometer	g 0.01	50 Hz			
	Gyr1		RollRate	Roll Rate	AiM Internal Gyro	deg/s 0.01	50 Hz		_	
	Gyr2	<ul><li>✓</li></ul>	PitchRate	Pitch Rate	AiM Internal Gyro	deg/s 0.01	50 Hz			
	Gyr3		YawRate	Yaw Rate	AiM Internal Gyro	deg/s 0.01	50 Hz			
	Accu		GPS Accuracy	GPS Accuracy	AM GPS	mm	10 Hz		_	
	Spd	✓	GPS Speed	Vehicle Spd	AIM GPS	km/h 0.1	10 Hz			
	Alt	◄	Altitude	Altitude	AIM GPS	m	10 Hz		_	
	OdD		Odometer	Odometer Total	AIM ODO	km	1 Hz			



- Click "Function" in the analog channel menu (be sure it is enabled) and choose "Voltage" or "Number" function, then choose the sensor type among these that appear clicking "Sensor.
  - **Voltage**: Volts (V) or milliVolts (mV) are the available measurement units, shown as whole number or with maximum three decimal places; user can set the sampling frequency.
  - **Numbe**r: to make this option appear in channel function menu you need to previously create a Custom Sensor.





To create a custom sensors press the related icon in the software top left keyboard: select Measure type "Number" and fill the table below with the related sensor values in Mv (with switch on and off). The recorded value is shown as whole number or with one decimal place in a 0-1 range, corresponding respectively to 0 mV and 5000 mV.





### **Race Studio 3**

To set the alarm LEDs of your AiM device, select the LEDs and display settings layers, to say:

- "Shift Lights and Alarms" layer for MXG 1.2/MXG 1.2 Strada, MXS 1.2/MXS 1.2 Strada, MXP/MXP Strada, MXm and MXL2.
- "Dashes" -> "Shift Lights and Alarms" layer for EVO/4S/5 (it is necessary to specify the dash type).

Choose which one among the available LEDs will show the alarm signal, set the reference channel with its threshold:

- Voltage: threshold 2,5V
- Number: threshold 0,5 (be sure that the channel is configured to be shown with one decimal place).

Once the process is over, click "Transmit" to transmit the configuration to your device. In the following example, an EVO4S configuration is shown.

🚈 Create New Alarm			_	
Description			Import	Export
If All 🗢	of the following conditions are true:			
Channel02	🗘 🚺 less than	\$ V 0	0,500	[ <b>+</b>
then trigger the following ac	tion(s):			
- Alarm actions in EVO4S-				
Output 🗘	Open Circuit			\$
	1			
Until: •••• condition	on no longer met			
-Alarm actions in GS Dash				
LED 1	continuously	\$	Red	<b>‡</b> [+
	1			
Until: condition	on no longer met			
			Save	Cancel