AiM Infotech

Pressure sensor 0-10 bar/0-145 PSI Race Studio 3 configuration

Release 1.00







1 Introduction

Once pressure sensor 1-10 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 the PC run the software and select the device the sensor is connected to;
- select the configuration the sensor is to be loaded on or create a new one pressing "New" and select "Channels" layer as here below;
- select the channel where to set the sensor (in the example below channel01) and click on the related cell of "Sensor" column;

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Save	Save As		Close Transmit					
Channels	ECU Stream	CAN	2 Stream Math Channels	Parameters Shift Lights	and Alarms Display Sma	rtyCam Stre	am CAN E	xpansions
	ID	\checkmark	Name	Function	Sensor	Unit	Freq	Parameters
	RPM	•	RPM	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 ;
	Spd3		Speed3	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
	Spd4		Speed4	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	
	CLOS	\square	CL105	V-H	0i-0 CV		00.11-	





- a configuration panel shows up
- select: "Pressure" function as well as the kind of pressure to sample (1) among:
 - o Oil pressure
 - o Brake Pressure
 - o Wheel Brake Pressure
 - Pressure (generic pressure as in the example)
- select the sensor "AiM 0-10 bar (X05SNP31010R)" (2)
- press "Save" (3)
- press "Transmit" (4)

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Save	Save As		Close Transmit)						
Channels	ECU Stream	CAI	N2 Stream Math Channels	Parame	ters Shift Lights	and Al	arms Display Sma	artyCam Stre	am CAN Ex	xpansions
	ID	\checkmark	Name	Functio	n	Sens	or	Unit	Freq	Parameters
	RPM	✓	RPM	RPM		RPM S	ensor	rpm	20 Hz	max: 16000 ; factor: /1 ;
	Spd1		Speed1	Vehicle S	pd	Speed Sensor		km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
	Spd2		Speed2	Vehicle S			Speed Sensor Speed Sensor		20 Hz	wheel: 1600 ; pulses: 1 ;
	Spd3		Speed3	Vehicle S					20 Hz	wheel: 1600 ; pulses: 1 ;
	Spd4		Speed4	Vehicle S	pd	Speed	Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
	Ch01	$\overline{\Box}$	Channel01	Voltage		Gener	ic 0-5 V	mV	20 Hz	
	Ch02		Channel02	Voltage	Channel Settings	1				<u> </u>
	Ch03		Channel03	Voltage	Name		Channel01			
	Ch04 Ch05	吕	Channel04	Voltage	Function	1	Pressure		\$	
	Ch05	吕	Channel05 Channel06	Voltage Voltage						
	Ch07		Channel07	Voltage	Display Precision	2	AiM 0-10 bar (X05SI	SNP31010R) 🗘	2	
	Ch08	$\frac{1}{1}$	Channel08	Voltage				\$		• · · · · · · · · · · · · · · · · · · ·
	AccX		AccelerometerX	Inline Acc					\$	
	AccY	$\overline{\mathbf{v}}$	AccelerometerY	Lateral A		2 decimal places	\$			
	AccZ		AccelerometerZ	Vertical A						
	GyrX	•	GyroX	Roll Rate						
	GyrY	☑	GyroY	Pitch Rat						
	GyrZ	☑	GyroZ	Yaw Rate						
	Spd	☑	GPS Speed	Vehicle S			3	Save	Cancel	
	OdD	✓	Odometer	Odomete	r Total	Aim OE	00	km 0.1	1 Hz	