AiM Infotech

Pressure sensor 0-100 bar/0-1450 PSI Race Studio 3 configuration

Release 1.00







1 Introduction

Once pressure sensor 1-100 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 a PC run the software and select the device the sensor is connected to;
- select the configuration sensor is to be loaded on or create a new one pressing "New" and select "Channel" layer shown here below;
- select the channel where to set the sensor (in the example below channel01) and click on the related cell of "Sensor" column;

RaceStudio	3 3.05.02								- • ×
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All MXG »	8								
Save	Save As		Close Transmit						
Channels	ECU Stream	CAN	12 Stream Math Channels	s Parameters Shift Lights and Alarms Display SmartyCam Stream CAN Expansions					
	ID	Name		Function	Sensor	Unit	Freq	Parameters	
	RPM RPM Spd1 Speed1 Spd2 Speed2 Spd3 Speed3		RPM	RPM Sensor	rpm	20 Hz	max: 16000 ; factor: /1 ;		
			Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;		
			Speed2	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;	
			Speed3	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;	
	Spd4	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	\Box	Channel04	Voltage	Generic 0-5 V	mV	20 Hz		





- 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 0-100 bar (X05SNP31100R)" (2)
- press "Save" (3)
- press "Transmit" (4)

Save	Save As Close Transmit ECU Stream CAN2 Stream Math Channels			Parameters Shift Lights		and Alarms Display Sma		artyCam Stream CAN Expansions		Expansions
	ID	✓ Name		Function		Sensor		Unit	Freq	Parameters
	RPM	•	RPM	RPM		RPM Sensor		rpm	20 Hz	max: 16000 ; factor: /1 ;
	Spd1		Speed1	Vehicle Sp	t	Speed Sensor		km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
	Spd2		Speed2	Vehicle Spd		Speed Sensor		km/h 0.1	h 0.1 20 Hz	wheel: 1600 ; pulses: 1 ;
	Spd3		Speed3		Vehicle Spd		Speed Sensor		20 Hz	wheel: 1600 ; pulses: 1 ;
	Spd4	Speed4		Vehicle Spd		Speed Sensor		km/h 0.1	20 Hz wheel: 1600 ; pulses: 1 ;	wheel: 1600 ; pulses: 1 ;
	Ch01		Channel01	Voltage		Generic 0-5 V		mV	20 Hz	
	Ch02		Channel02	Voltage	🗠 Channel Setting	s			l	
	Ch03		Channel03	Voltage	Name		Channel01			
	Ch04		Channel04	Voltage	Function	1	Pressure			÷
	Ch05		Channel05	Voltage						
	Ch06		Channel06	Voltage	Sensor	2	AiM 0-100 bar (X	05SNP31100	R)	÷
	Ch07		Channel07	Voltage	Sampling Frequ	ency	20 Hz			÷
	Ch08		Channel08	Voltage	Unit of Measure		bar			÷
	AccX		AccelerometerX	Inline Acce	Display Precisio	n	2 decimal places			\$
	AccY		AccelerometerY	Lateral Act						
	AccZ		AccelerometerZ	Vertical Ac						
	GyrX		GyroX	Roll Rate						
	GyrY		GyroY	Pitch Rate						
	GyrZ		GyroZ	Yaw Rate			3	Save	Cance	el
	Spd		GPS Speed	Vehicle Sp			<u> </u>			
	OdD	\checkmark	Odometer	Odometer	Fotal	AIM OD(C	km 0.1	1 Hz	