AiM Infotech

AiM pressure sensor 0-10 bar Race Studio 3 configuration

Release 1.01







1 Introduction

Once pressure sensor 0-10 bar is physically connected to one of the device channels, 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)

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AII MX51.2 × MX5 ×													
Save Save As Close Transmit													
Channels	ECU Stream	CAN2 Stream	CAN Expa	nsions Ma	ath Channels	St	atus Variables	Parameters	Shift Lights and Alarms	Trigger Commands	Icons Manage	Display	SmartyCam Stream CAN Output
					ID	\checkmark	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 ;
					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 ;
						•	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	
						_							



- a configuration panel shows up
- select: "Pressure" function as well as the kind of pressure to sample among:
 - o Oil Pressure
 - o Brake Pressure
 - Wheel Brake Pressure
 - o Fuel Pressure
 - Pressure (generic pressure as in the example)
- select the sensor "AiM 0-10 bar (X05PSA00010B10)", "AiM 0-10 bar (X05PSA00010B18)" or "AiM 0-10 bar (X05PSA00010B38)"
- select the channel sampling frequency, unit of measurement and number of decimal places
- press "Save"
- press "Transmit"

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All MXS 1.2 ³⁶ MXS ³⁶								
Save Save As Close Transmit							AiM 0 to 4 absolute bar (X05SNP31004A)	
	nels S	tatus Variables Paramete	Shift Lights and Al	arms Trigger Commands	Icons Manager	Display 9	AIM 0-5 bar (X05PSA00005B38)	
							imarty AiM 0-10 bar (X05SNP31010R)	
ID		Name	Function	Sensor	Unit	Freq	Pa AlM 0-10 bar (X05PSA00010B38) AlM 0-10 bar (X05PSA00010B10)	
RPM	•	RPM	Engine RPM	RPM Sensor	rpm	20 Hz	ma AiM 0-100 bar (X05SNP31100R)	
Spd1		Speed1	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	whe AiM 0-100 bar (X05PSA00100B10)	
Spd2		Speed2	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	whe AiM 0-100 bar (X05PSA00100B38)	
Spd3		Speed3	Channel Settings			×	AiM 0-160 bar (X05PSA00160B10) whe AiM 0-50 psi (X05PSA00050P18)	
Spd4		Speed4	Name	Channel01			whe AiM 0-150 psi (X05PSA00150P18)	
Ch01	_	Channel01		Analog	O Digital		AiM 0-160 bar (X05SNP31160R)	
			Function	Pressure	0	÷	AiM 0-160 psi (X05SNPRS0300U)	
Ch02	_	Chameloz					AiM 0-2000 psi (X05PSA02000P18)	
Ch03	~	Channel03					AiM VDO 0-2 bar	
Ch04		Channel04	Sensor	AiM 0 to 4 absolute bar (X05	5SNP31004A)	\$	AiM VDO 0-5 bar AiM VDO 0-10 bar	
Ch05	•	Channel05	Sampling Frequency	20 Hz		\$	MSI 0-100 psi	
Ch06		Channel06	Unit of Measure	bar		\$	MSI 0-150 psi	
Ch07			Display Precision	no decimal place		÷	MSI 0-2000 psi	
Ch08		Channel08					Bosch 5e0 0-250 bar Kavlico 0-50 psi	
	_					-	Kavlico 0-500 psi	
Acc1		InlineAcc				Ļ	GM 0-3 bar	
Acc2	•	LateralAcc					KA 0-150 psi	
Acc3	•	VerticalAcc					KA 0-500 psi	
Gyr1		RollRate			Save	Cancel	KA 0-3000 psi KA 0-100 bar	
Gyr2	_	PitchRate	Pitch Rate	AiM Internal Gyro		50 Hz	PRESS 0-140 bar	
Gyr3	-	YawRate	Yaw Rate	AiM Internal Gyro	deg/s 0.1	50 Hz	PRS 831 0-50 psi abs	
Accu	_	GPS Accuracy	GPS Accuracy	AIM GPS	mm	10 Hz	PRS 837 0-150 psi	
Sed		GPS Speed	Vehicle Spd	AIM GPS	km/h 0.1	10 Hz	PRS 832 0-15 psi PRS 834 0-50 psi	
spa	_	-					PRS 838 0-300 psi	
Air	_	Altitude	Altitude	AIM GPS	m	10 Hz	PRS 839 0-2000 psi	
OdD	_	Odometer	Odometer Total	AIM ODO	km 0.1	1 Hz	Variohm 0-100 bar (X05SNBO100)	
Luma	•	Luminosity	Brightness	AiM Luminosity	%	1 Hz	Variohm 0-16 bar (X05SNP13441) Variohm 0-160 bar (X05SNP13520)	
							Variohm 0-4 bar abs (X05SNP31050)	