AiM InfoTech

AiM pressure sensor 0-300 PSI Race Studio 3 configuration

Release 1.00







Introduction

Once pressure sensor 0-300 PSI 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 MXS	1.2 [∞] MXS [∞]									
Save	Save As	s Close	Transmit							
Channel	ECU Stream	CAN2 Stream	CAN Expansions	Math Channels	Status Variables	Parameters Shift Lights and Alarms	Trigger Commands	Icons Manager	Display S	SmartyCam Stream CAN Output
				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 ;
				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	
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- a configuration panel shows up
- select: "Pressure" function as well as the kind of pressure to sample (1) among:
 - Oil pressure
 - Brake Pressure
 - Wheel Brake Pressure
 - Pressure (generic pressure as in the example)
 - select the sensor "AiM 0-300 PSI (X05PSA00300P18)" (2)
- press "Save" (3)

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• press "Transmit" (4)

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All MXS 1.2 ³⁰ MXS ³⁰					
Save Save As Close Transmit			AIM 0 to 4 absolute bar (X05SNP31004A)		
Channels ECU Stream CAN2 Stream CAN Expansions Math Channels	Status Variables Parameter	s Shift Lights and Ala	AIM 0-5 bar (X05PSA00005B38)	SmartyCam Stream CAN Output	
ID	✓ Name	Function	AIM 0-10 bar (X05PSA00010B38) AIM 0-10 bar (X05PSA00010B10)	Parameters	
	RPM		AIM 0-10 bar (X05SNP31010R)		
		Engine RPM	AIM 0-100 bar (X05PSA00100B10)	max: 16000 ; factor: /1 ;	
	Speed1	Vehicle Spd	AiM 0-100 bar (X05PSA00100B38)	wheel: 1600 ; pulses: 1 ;	
Spd2	Speed2	Vehicle Spd	AIM 0-100 bar (X05SNP31100R) AIM 0-160 bar (X05PSA00160B10)	wheel: 1600 ; pulses: 1 ;	
Spd3	Speed3	Channel Settings	AIM 0-160 bar (X05PSA00160B10) AIM 0-160 bar (X05SNP31160R)	wheel: 1600 ; pulses: 1 ;	
Spd4	Speed4 Na	ame	AIM 0-50 psi (X05PSA00050P18)	wheel: 1600 ; pulses: 1 ;	
Ch01	Channel01		AIM 0-150 psi (X05PSA00150P18)		
	_	unction	Aliti 6 100 p.i. (RECONFREECODU)		
	Channel03	1	AIM 0-300 psi (X05PSA00300P18)		
	_		AIM VDO 0-2 bar		
	<u> </u>	ensor	AIM VDO 0-5 bar		
Ch05	Channel05 Sa	ampling Frequency	AIM VDO 0-10 bar		
Ch06	Channel06 Ur	nit of Measure	MSI 0-100 psi		
Ch07	Channel07 Di	splay Precision	MSI 0-150 psi MSI 0-2000 psi		
Ch08	Channel08		Bosch 5e0 0-250 bar		
	✓ InlineAcc		Kavlico 0-50 psi		
			Kavlico 0-500 psi		
	LateralAcc		GM 0-3 bar		
Acc3	VerticalAcc		KA 0-150 psi		
Gyr1	RollRate		KA 0-500 psi KA 0-3000 psi		
Gyr2	PitchRate	Pitch Rate	KA 0-100 bar	1	
Gyr3	VawRate	Yaw Rate	PRESS 0-140 bar		
	GPS Accuracy	GPS Accuracy	PRS 831 0-50 psi abs		
	GPS Speed	Vehicle Spd	PRS 832 0-15 psi		
			PRS 834 0-50 psi PRS 837 0-150 psi		
	Altitude	Altitude	PRS 838 0-300 psi		
OdD	Odometer	Odometer Total	PRS 839 0-2000 psi		
Luma	Luminosity	Brightness	Variohm 0-4 bar abs (X05SNP31050)		
			Variohm 0-16 bar (X05SNP13441)		
			Variohm 0-100 bar (X05SNBO100)		
L			Variohm 0-160 bar (X05SNP13520)	1	