AiM Infotech

## VDO pressure sensor 0-5 bar (0-72 PSI) 0-10 bar (0-145 PSI) Race Studio 3 configuration

#### Release1.00









### 1 Introduction

Once VDO pressure sensor 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 "Channel" layer shown here below;
- select the channel where to set the sensor on (in the example below channel 01) 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	artyCam Stre	am CAN E	xpansions
	ID	$\checkmark$	Name	Function	Sensor	Unit	Freq	Parameters
	RPM	$\checkmark$	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 ;
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	

#### InfoTech



- a configuration panel shows up
- select: "Pressure" function as well as the kind of pressure to sample (1) among:
  - o Oil pressure (as in the example)
  - o Brake Pressure
  - o Wheel Brake Pressure
  - Pressure (generic pressure)
- select the sensor "AiM VDO 0-10 bar (or 0-5 bar)" (2)
- press "Save" (3)
- press "Transmit" (4)

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Save	Save As		Close Transmit									
Channels	els ECU Stream CAN2 Stream Math Channels Parameters Shift Lights and Alarms Display SmartyCam Stream CAN Expansions											
	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	Verify Channel Settings			Hz	wheel: 1600 ; pulses: 1 ;				
	Spd3		Speed3	V Name	Channel01		- Hz	wheel: 1600 ; pulses: 1 ;				
	Spd4		Speed4	V Function	Oil Pressure	ŧ	HZ	wheel: 1600 ; pulses: 1 ;				
	Ch01		Channel01	V			ΗZ					
	Ch02		Channel02	Sensor 2	AiM VDO 0-10 bar	\$	Hz					
	Ch03		Channel03	V Sampling Frequency	20 Hz		Hz					
	Ch04		Channel04	V			HZ					
	Ch05		Channel05	Unit of Measure	bar	+	- PZ					
	Ch06		Channel06	V Display Precision	2 decimal places		- Hz					
	Ch07		Channel07	V			Hz					
	Ch08		Channel08	V			Нz					
	AccX	☑	AccelerometerX	In			HZ					
	AccY	☑	AccelerometerY	L			Hz					
	AccZ	☑	AccelerometerZ	V	3 Save	Cancel	Hz					
	GyrX	☑	GyroX	Roll Rate	AiM Internal Gyro	deg/s 0.1	50 Hz					
	GyrY	☑	GyroY	Pitch Rate	AiM Internal Gyro	deg/s 0.1	50 Hz					
	GyrZ	☑	GyroZ	Yaw Rate	AiM Internal Gyro	deg/s 0.1	50 Hz					
	Spd	☑	GPS Speed	Vehicle Spd	AIM GPS	km/h 0.1	10 Hz					
	OdD	✓	Odometer	Odometer Total	AIM ODO	km 0.1	1 Hz					