

AiM Infotech

Sensore di pressione VDO
0-5 Bar (0-72 PSI)
0-10 Bar (0-145 PSI)
Configurazione con Race
Studio 3

Versione 1.00



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Introduzione

Quando il sensore di pressione VD0 è collegato fisicamente ad un canale dello strumento è necessario caricarlo nella relativa configurazione col software di configurazione AiM. In questo datasheet esso verrà caricato nella configurazione dello strumento con **Race Studio 3**.

2

Configurazione con Race Studio 3

- con lo strumento acceso e collegato al PC lanciare il software e selezionare lo strumento cui il sensore viene collegato;
- selezionare la configurazione sulla quale si vuole impostare il sensore o crearne una nuova premendo il tasto "Nuova" e selezionare il layer "Canali" mostrato sotto;
- scegliere il canale su cui si vuole impostare il sensore (nell'esempio sotto il canale 1) e cliccare sulla relativa cella della colonna "Sensore";

The screenshot shows the RaceStudio3 3.05.02 software interface. The 'Channels' tab is active, displaying a table with the following columns: ID, Name, Function, Sensor, Unit, Freq, and Parameters. The 'Channel01' row is selected, and a mouse cursor is pointing at the 'Generic 0-5 V' cell in the 'Sensor' column.

ID	<input checked="" type="checkbox"/>	Name	Function	Sensor	Unit	Freq	Parameters
RPM	<input checked="" type="checkbox"/>	RPM	RPM	RPM Sensor	rpm	20 Hz	max: 16000 ; factor: /1 ;
Spd1	<input type="checkbox"/>	Speed1	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Spd2	<input type="checkbox"/>	Speed2	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Spd3	<input type="checkbox"/>	Speed3	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Spd4	<input type="checkbox"/>	Speed4	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Ch01	<input type="checkbox"/>	Channel01	Voltage	Generic 0-5 V	mV	20 Hz	
Ch02	<input type="checkbox"/>	Channel02	Voltage	Generic 0-5 V	mV	20 Hz	
Ch03	<input type="checkbox"/>	Channel03	Voltage	Generic 0-5 V	mV	20 Hz	
Ch04	<input type="checkbox"/>	Channel04	Voltage	Generic 0-5 V	mV	20 Hz	
Ch05	<input type="checkbox"/>	Channel05	Voltage	Generic 0-5 V	mV	20 Hz	
Ch06	<input type="checkbox"/>	Channel06	Voltage	Generic 0-5 V	mV	20 Hz	

- apparirà un pannello di configurazione
- selezionare la funzione: "Pressione" ed il tipo di pressione prescelta (1) tra
 - Oil pressure (pressione olio – come nell'esempio)
 - Brake Pressure (pressione freni)
 - Wheel Brake Pressure (Pressione freno ruota)
 - Pressure (pressione generica)
- scegliere il sensore "AiM VDO 0-10 bar (oppure 0-5 bar)" (2)
- premere "Save" (3)
- premere "Transmit" (4)

The screenshot shows the RaceStudio3 3.05.02 software interface. The main window displays a table of channels with columns for ID, Name, Function, Sensor, Unit, Freq, and Parameters. A 'Channel Settings' dialog box is open over the 'Channel01' row. The dialog box contains the following fields:

- Name: Channel01
- Function: Oil Pressure (indicated by a circled '1')
- Sensor: AIM VDO 0-10 bar (indicated by a circled '2')
- Sampling Frequency: 20 Hz
- Unit of Measure: bar
- Display Precision: 2 decimal places
- Buttons: Save (indicated by a circled '3') and Cancel

In the main interface, the 'Transmit' button is highlighted with a circled '4'.

ID	Name	Function	Sensor	Unit	Freq	Parameters
RPM	<input checked="" type="checkbox"/> RPM	RPM	RPM Sensor	rpm	20 Hz	max: 16000 ; factor: /1 ;
Spd1	<input type="checkbox"/> Speed1	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Spd2	<input type="checkbox"/> Speed2	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Spd3	<input type="checkbox"/> Speed3	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Spd4	<input type="checkbox"/> Speed4	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Ch01	<input type="checkbox"/> Channel01	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Ch02	<input type="checkbox"/> Channel02	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Ch03	<input type="checkbox"/> Channel03	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Ch04	<input type="checkbox"/> Channel04	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Ch05	<input type="checkbox"/> Channel05	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Ch06	<input type="checkbox"/> Channel06	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Ch07	<input type="checkbox"/> Channel07	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
Ch08	<input type="checkbox"/> Channel08	Vehicle Spd	Speed Sensor	km/h 0.1	20 Hz	wheel: 1600 ; pulses: 1 ;
AccX	<input checked="" type="checkbox"/> AccelerometerX	Inertial	AIM Internal Gyro	deg/s 0.1	50 Hz	
AccY	<input checked="" type="checkbox"/> AccelerometerY	Inertial	AIM Internal Gyro	deg/s 0.1	50 Hz	
AccZ	<input checked="" type="checkbox"/> AccelerometerZ	Inertial	AIM Internal Gyro	deg/s 0.1	50 Hz	
GyrX	<input checked="" type="checkbox"/> GyroX	Roll Rate	AIM Internal Gyro	deg/s 0.1	50 Hz	
GyrY	<input checked="" type="checkbox"/> GyroY	Pitch Rate	AIM Internal Gyro	deg/s 0.1	50 Hz	
GyrZ	<input checked="" type="checkbox"/> GyroZ	Yaw Rate	AIM Internal Gyro	deg/s 0.1	50 Hz	
Spd	<input checked="" type="checkbox"/> GPS Speed	Vehicle Spd	AIM GPS	km/h 0.1	10 Hz	
OdD	<input checked="" type="checkbox"/> Odometer	Odometer Total	AIM ODO	km 0.1	1 Hz	