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AiM Infotech

VDO pressure sensor 0-5 bar (0-72 PSI)

0-10 bar (0-145 PSI)

Race Studio 2 Configuration

Release 1.00



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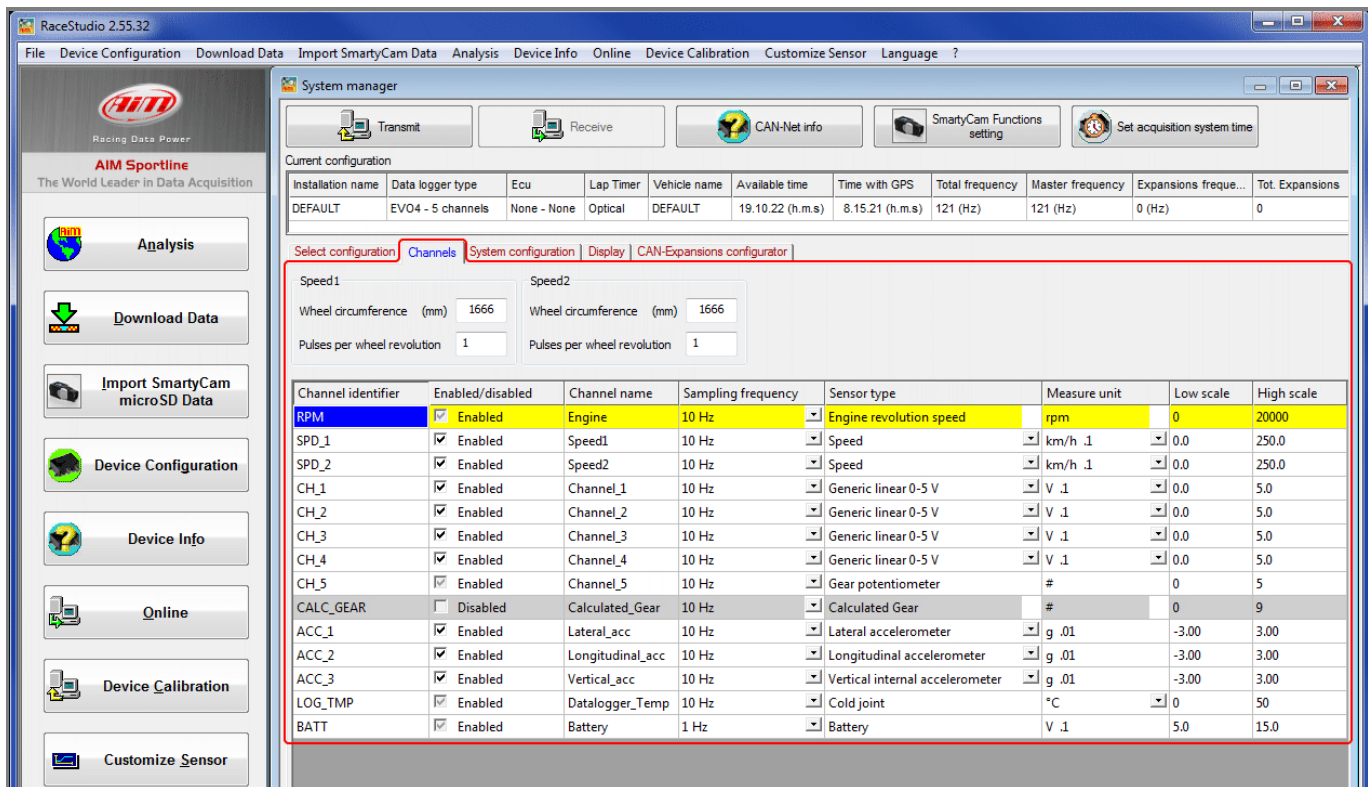


# 1 Introduction

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 2** software.

# 2 Setup with Race Studio 2

- with the device switched on and connected to the PC run Race Studio 2 and select the logger the sensor is connected to; select the configuration where to load the sensor on or create a new one pressing "New"
- enter "Channels" layer shown here below;



- select "Pressure VDO 0-10 bar (or 0-5 bar)" sensor in "sensor type" column of the desired channel (in the example channel 01) shown here below
- press "Transmit"

The screenshot shows the RaceStudio 2.55.32 software interface. The 'System manager' window is open, displaying a table of channels and their configurations. A dropdown menu is open for the 'Sensor type' column of channel CH\_1, showing various sensor options. The 'Pressure VDO 0-10 bar' option is highlighted in blue. A red box highlights the 'Transmit' button in the top toolbar.

Channel identifier	Enabled/disabled	Channel name	Sampling frequency	Sensor type	Measure unit	Low scale	High scale
RPM	✓ Enabled	Engine	10 Hz	Engine revolution speed	rpm	0	20000
SPD_1	✓ Enabled	Speed1	10 Hz	Speed	km/h .1	0.0	250.0
SPD_2	✓ Enabled	Speed2	10 Hz	Speed	km/h .1	0.0	250.0
CH_1	✓ Enabled	Channel_1	10 Hz	Generic linear 0-5 V	V .1	0.0	5.0
CH_2	✓ Enabled	Channel_2	10 Hz	Thermocouple	V .1	0.0	5.0
CH_3	✓ Enabled	Channel_3	10 Hz	Thermoresistance PT100	V .1	0.0	5.0
CH_4	✓ Enabled	Channel_4	10 Hz	Temperature VDO 40-120 °C	V .1	0.0	5.0
CH_5	✓ Enabled	Channel_5	10 Hz	Temperature VDO 50-150 °C	V .1	0.0	5.0
CALC_GEAR	✗ Disabled	Calculated_Gear	10 Hz	Temperature VDO 60-200 °C	#	0	5
ACC_1	✓ Enabled	Lateral_acc	10 Hz	Water temp. ( CLIO )	#	0	9
ACC_2	✓ Enabled	Longitudinal_acc	10 Hz	Water temp. ( SUZUKI SUPERSPOR	g .01	-3.00	3.00
ACC_3	✓ Enabled	Vertical_acc	10 Hz	Pressure VDO 0-2 bar	g .01	-3.00	3.00
LOG_TMP	✓ Enabled	Datalogger_Temp	10 Hz	Pressure VDO 0-5 bar	g .01	-3.00	3.00
BATT	✓ Enabled	Battery	1 Hz	Pressure VDO 0-10 bar	°C	0	50