AiM Infotech

Rotary potentiometer for car/bike/kart
Race Studio 2 configuration – steering angle

Release 1.00

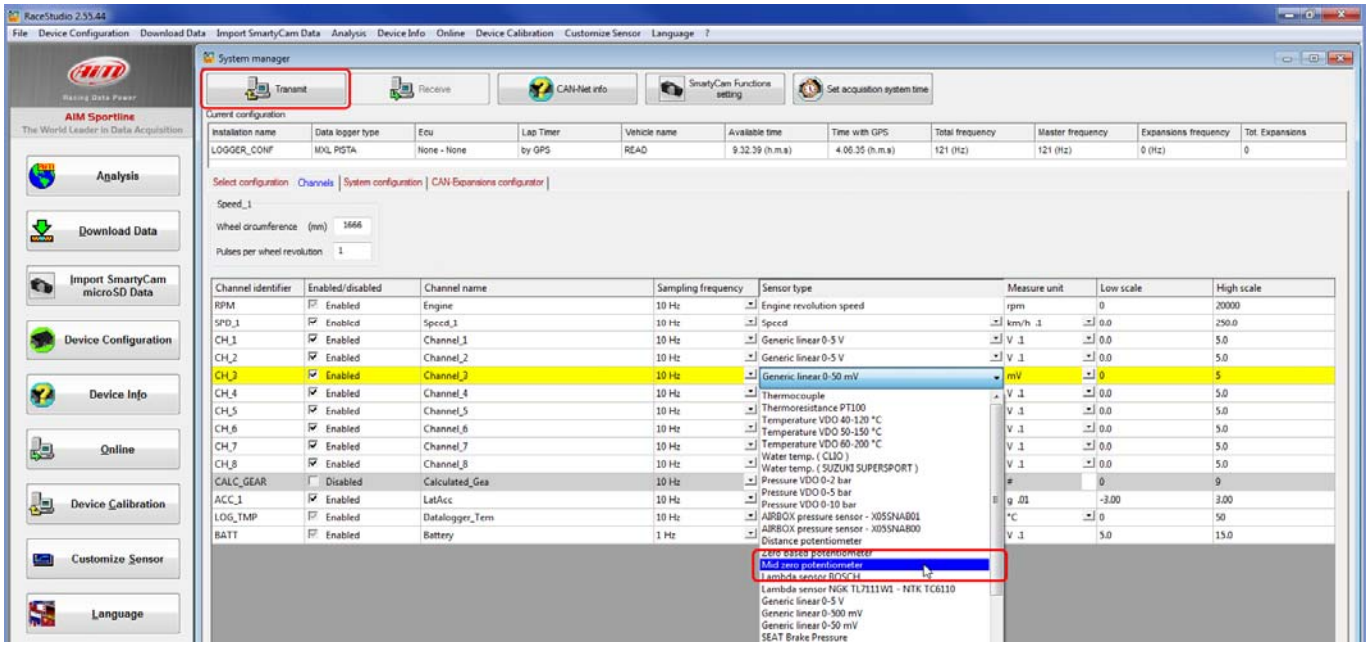
1 Introduction

This datasheet explains how to install and set up wit Race Studio 2 the rotary potentiometer.
AiM loggers can measure the displacement between two points using a sensor (rotary potentiometer) directly connected to the two measure points. This potentiometer can measure the angular displacement like those of the steering wheel.

2 Setup with Race Studio 2

To load the potentiometer in AiM logger configuration:

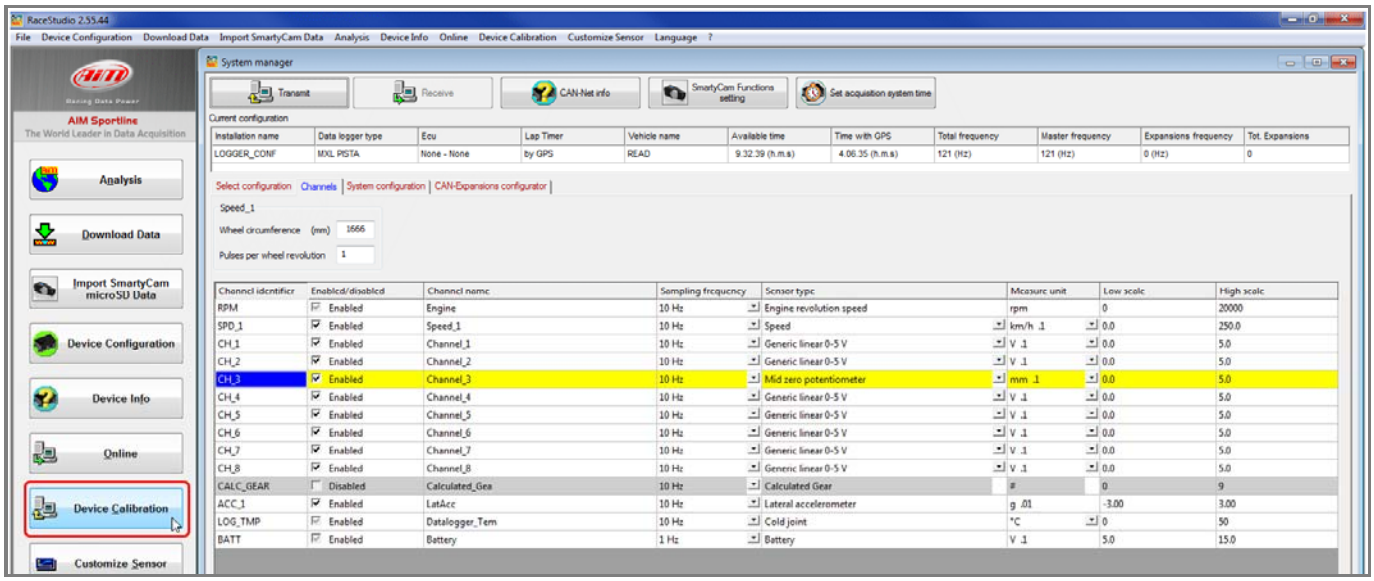
- run the software, select the logger in use and the configuration to set the potentiometer on and enter "Channels" layer
- Select the channel where to set the potentiometer on (in the example channel 3) and select "Mid zero potentiometer" in "Sensor type" column as shown here below.



- click out of the cell
- transmit the configuration to the logger pressing "Transmit" on the software top keyboard.

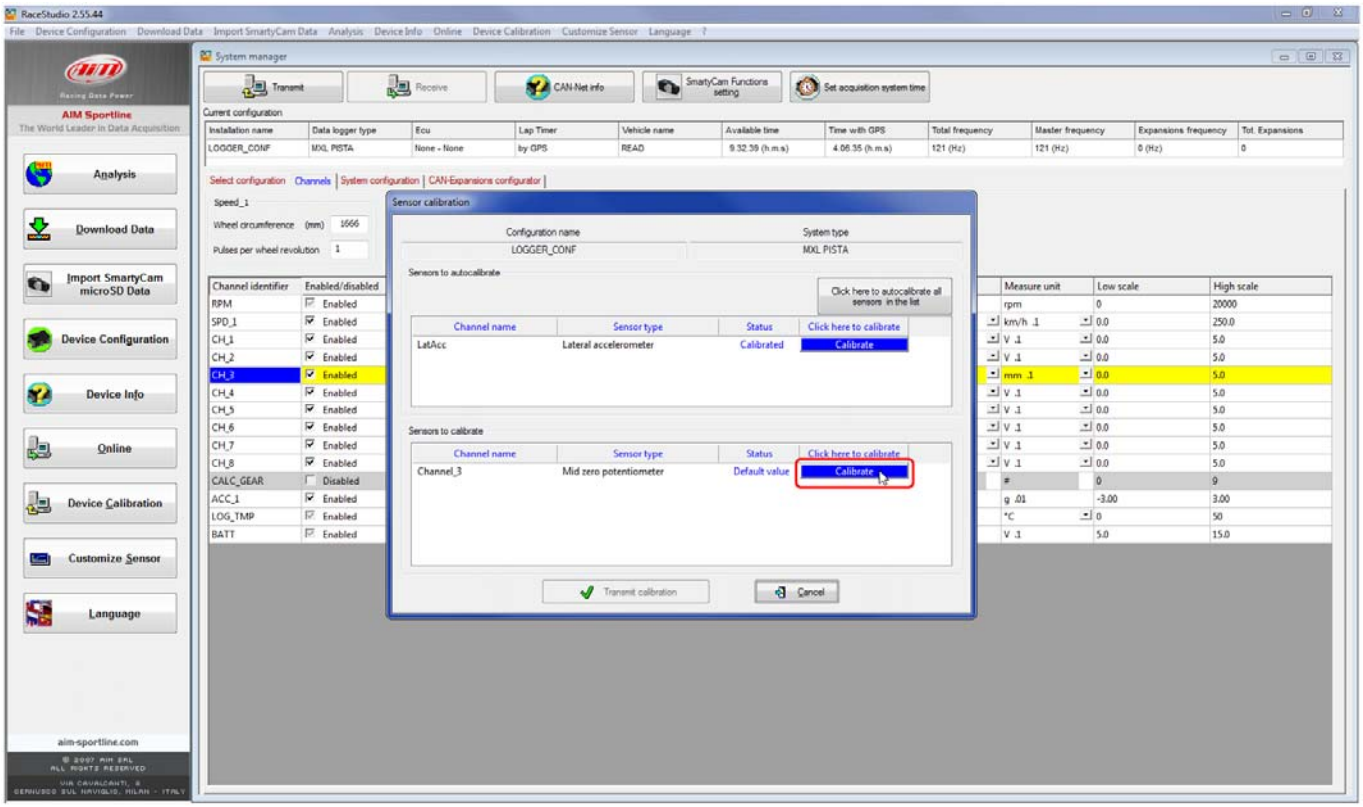
To calibrate the potentiometer:

- Press "Device Calibration"



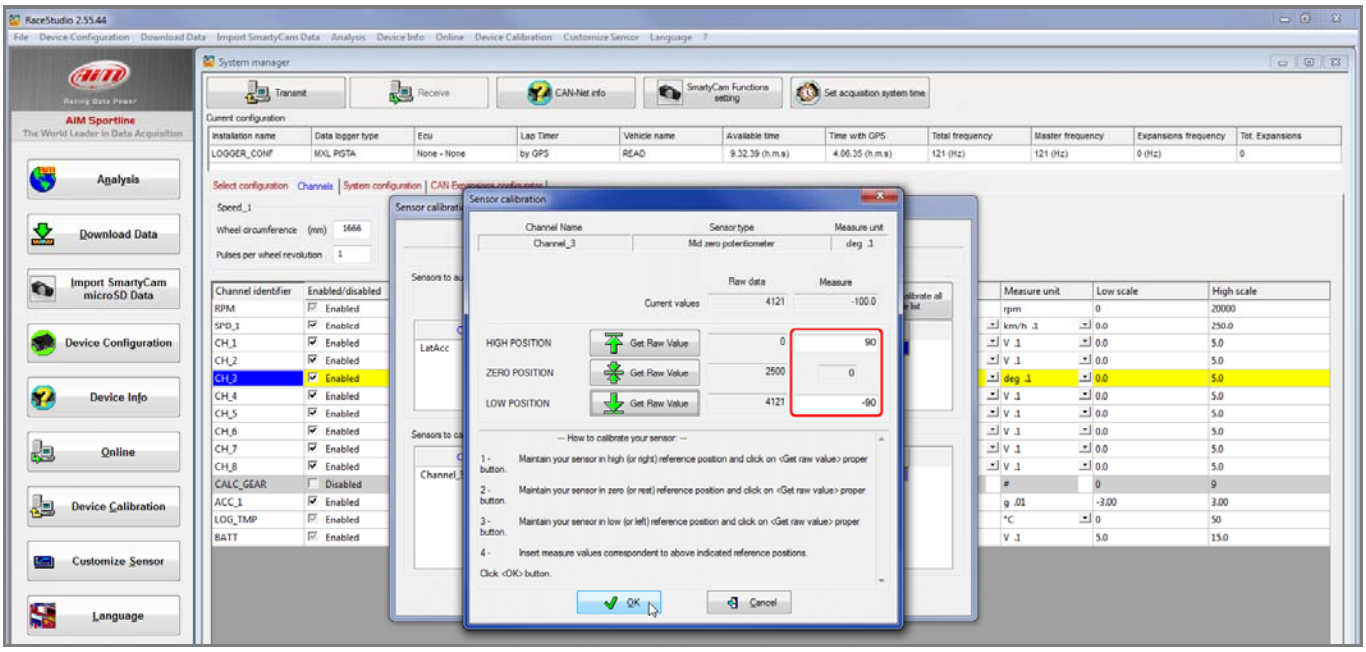
Calibration panel shows up:

- Press "Calibrate" button of "Mid zero potentiometer"

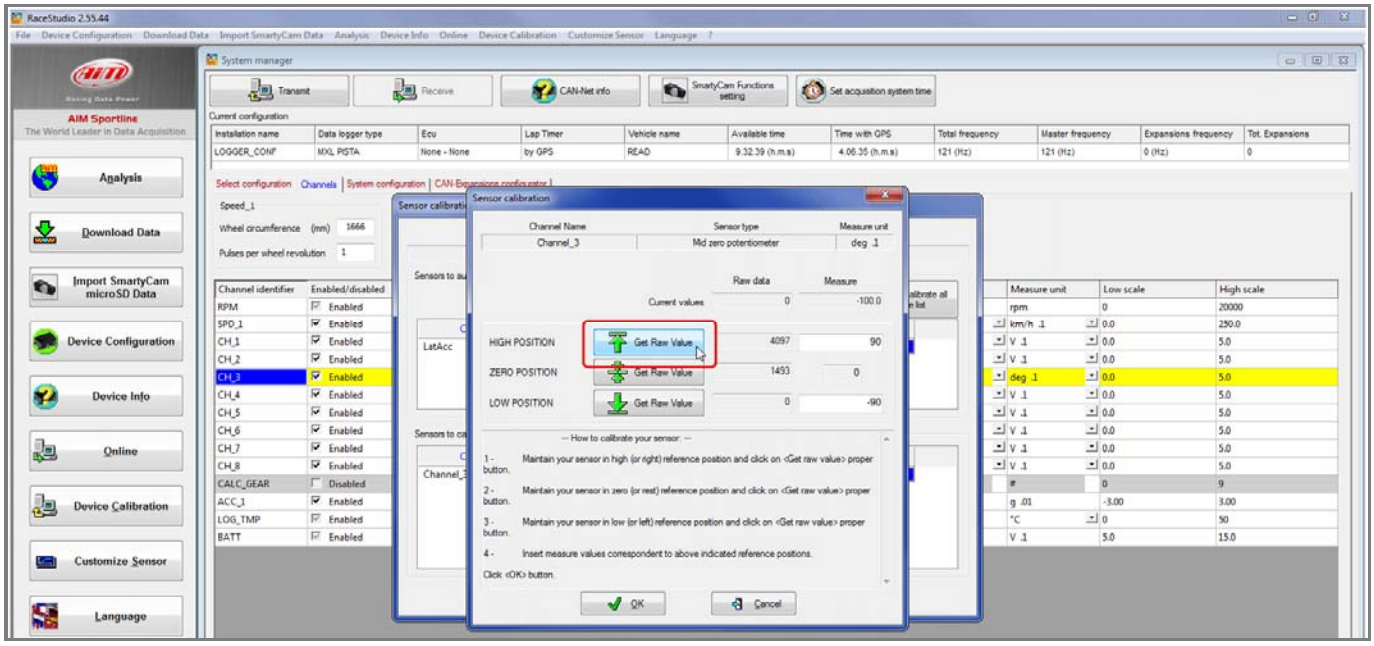


The software shows "Calibration panel" to learn the three calibration points:

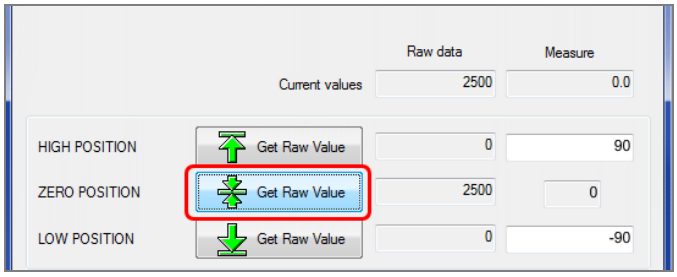
- manually fill in values corresponding to the three angular position: for example 90, 0 and -90.

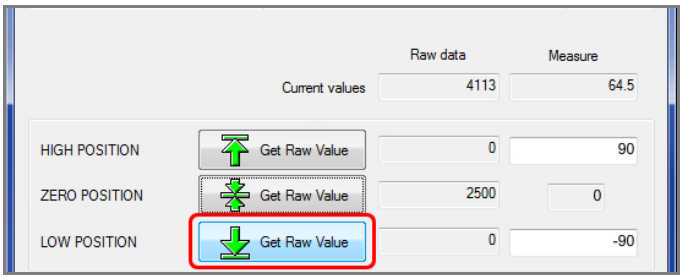


- swerve to the right according to the angle you wish to calibrate and press "Get raw value" corresponding to "High position"



- place the steering in its zero position and press "Get raw value" corresponding to "Zero position" (image below on the left)
- swerve to the left according to the angle you wish to calibrate and press "Get raw value " corresponding to "Low position" (image below on the right)





- press OK

When calibration is over potentiometer status will turn to "Calibrated" and become red:

- Transmit the calibration to the logger pressing "Transmit Calibration"