AiM Infotech

Car/bike rotatory potentiometer – Race Studio 2 configuration – throttle

Release 1.00
1 Introduction

This datasheet explains how to configure with Race Studio 2 the throttle potentiometer for car/bike installations. AiM instruments can measure the relative displacement between two different points using a sensor (rotary potentiometer) directly connected to the two measure points. This sensor may be used to measure angular displacements, such as throttle position.

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 8) and select "Zero based potentiometer" in "Sensor type" column as shown here below.

![Image of Race Studio 2 software configuration interface]
Transmit the configuration to the logger pressing "Transmission".

To calibrate the potentiometer:
- Press "Device Calibration"
Calibration panel shows up:

- Press "Calibrate" button of "Zero based potentiometer"

To learn the calibration points the software shows the related panel:

- with the throttle in its high position press "Get raw value" corresponding to high position, fill in the reference value in the related cells highlighted here below on the left
  - "0" for zero position
  - "100" for high position
- with the throttle in its zero position press "Get raw value" corresponding to zero position (image here 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"