AiM Infotech

K type thermocouple Car/bike/kart installations Race Studio 2 configuration

Release 1.00





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1 Introduction

When the K type thermo couple is physically connected to one channel of AiM device it is necessary to load it in the related configuration with AiM configuration software. In this datasheet it is loaded using **Race Studio 2** software.

2 Race Studio 2 configuration

To load the sensor in the device configuration:

- run the software, select the logger in use (i.e. EVO4) and the configuration where to load the sensor on and enter "Channel" layer;
- choose the channel where to set the sensor on (i.e. channel 2) and select "Thermocouple" in "Sensor type" column as shown below.

	System manager												
Rectory Data Passer	Transmit		Receive CAN-Net #		l-Net info			em Functions etting Set acquisition system time					
AIM Sportline World Leader in Data Acquisition	Current configuration												
	Installation name Data logger typ		Ecu	Lap Timer	Vehicle name	Avail	ible time	Time with GPS	Total frequency	Master fre	quency E	Expansions frequency	
	DEFAULT	EV04 - 5 channels	None - None	Optical	DEFAULT	19,10	22 (h.m.s)	8.15.21 (h.m.s)	121 (Hz)	121 (Hz)	0) (Hz)	0
Analysis	Select configuration		iguration Display CAN	Expansions configurat	tor								
Download Data	Wheel droumference Pulses per wheel re-	e (mm) 1555	Wheel circumference (m Pulses per wheel revolutio	A CONTRACTOR									
Import SmartyCam microSD Data	Channel identifier	lidentifier Enabled/disabled Channel name		Sa		ling frequency	Sensor type			Measure unit	Low scale	: High	scale
	RPM	Enabled	Engine		10 Hz		Engine revolu	ution speed		rpm	0	20000)
Device Configuration	SPD_1	Enabled	Speed1		10 Hz		Speed			km/h 1	· 0.0	250.0	
	SPD_2	F Enabled	Speed2		10 Hz	1	Speed			km/h .1			
	CH1	Enabled	Channel 1		10 Hz		Generic linea	c linear 0-5 V		V 1	±0.0 5.0		
	CH_2	Enabled	Channel 2	ennel_2		-	Thermocoup	ple		*C	- 0 5		
Device Info	CH_3	Frabled	Channel_3		10 Hz	1	- Thermocouple			V .1	-0.0 S.0		
	CH_4	Enabled	Channel_4		10 Hz		Thermoresist	Thermoresistance PT100 4 Temperature VDO 40-120 *C Temperature VDO 50-150 *C Temperature VDO 50-200 *C Mater temp. (CLO) Mater temp. (SJ/ZUKI SUPERSPORT) *ressure VDO -2 bar		V 1	- 0.0	5.0	
	CH_S	Enabled	Channel_5	anel_5			Temperature			8	0	5	
<u>Quline</u>	CALC_GEAR	☐ Disabled	Calculated_Gear		10 Hz		1 i emperature			#	0	9	
	ACC_1	Enabled	Lateral_acc		10 Hz		Water temp.			g .01	-3.00	3.00	
	ACC_2	F Enabled	Longitudinal_acc		10 Hz		Pressure VDC			g .01	-3.00	3.00	
Device Calibration	ACC_3	Enabled	Vertical_acc		10 Hz		Pressure VDO 0-5 bar Pressure VDO 0-10 bar			g .01	-3.00	3.00	
	LOG_TMP	Enabled	Datalogger_Temp		10 Hz						- 0	50	
	BATT	I Enabled	Battery		1 Hz		AIRBOX pressure sensor - X05SNA801 AIRBOX pressure sensor - X05SNA800 Distance potentiometer			V 1	5.0	15.0	
Customize Sensor							Mid zero pot Lambda sens Lambda sens Water pitot s Gyro External verti	sor BOSCH sor NGK TL7111WI - NTI speed sensor ical accelerometer a: 0-5 V a: 0-500 mV a: 0-500 mV a: 0-50 mV a: 0-50 mV a: 5 ensor	K TC6110				



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The sensor is set on the desired channel. Transmit the configuration to the logger pressing "Transmit".

