

AiM Infotech

Stack TPMS

Release 1.01







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This tutorial explains how to connect Stack TPMS (Tyre Pressure Monitoring System) to AiM devices.

1 Software Check

Before connecting Stack TPMS to AiM devices a software check is needed:

- With TPMS connected to the PC run "TPMS Configurator Utility "
- enable "Wheel CAN ID" layer
- check that values corresponding to the four wheels of the vehicle are as follows:
 - o Front left: 1440
 - o Front right: 1441
 - o Rear left: 1442
 - o Rear right: 1443
- in case the values are different manually input the correct values and press "Write config" as shown here below.

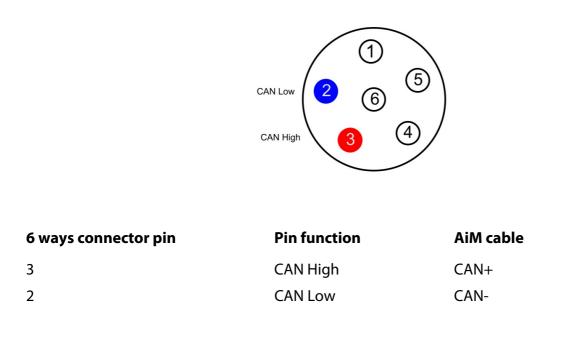
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1440 1 Rear Left: R	ront Right: Receive 441 1439 Bear Right:		Write Config.
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2 Wiring connection

Stack TPMS features a data transmission bus based on CAN on the 6 ways round front connector. Here below you see connector pinout (rear view) and connection table.



2 AiM device configuration

Before connecting the ECU to AiM device, set this up using AiM Race Studio software. The parameters to select in the device configuration are:

- ECU manufacturer "STACK"
- ECU Model "TPMS_CONTROL_UNIT"



3 Available channels

Channels received by AiM devices connected to "Stack" "TPMS_CONTROL_UNIT" protocol are:

ECU_11FL_SENS_ID_EXTFront left wheel sensor ID extension for correct readingECU_2FL_SENS_IDFront left wheel sensor IDECU_3FR_SENS_ID_EXTFront right wheel sensor ID for correct readingECU_4FR_SENS_IDFront right wheel sensor IDECU_5RL_SENS_ID_EXTRear left wheel sensor ID for correct readingECU_6RL_SENS_IDRear left wheel sensor IDECU_7RR_SENS_ID_EXTRear left wheel sensor IDECU_8RR_SENS_ID_EXTRear right wheel sensor ID for correct readingECU_9FL_PRESSFront left wheel sensor IDECU_10FR_PRESSFront left wheel pressureECU_11RL_PRESSFront right wheel pressureECU_12RR_PRESSRear right wheel pressureECU_13FL_TEMPFront left wheel temperatureECU_14FR_TEMPFront right wheel temperatureECU_15RL_TEMPRear left wheel temperatureECU_16RR_TEMPRear right wheel temperatureECU_17FL_ERRORFront left wheel temperature	ID	CHANNEL NAME	FUNCTION
ECU_3FR_SENS_ID_EXTFront right wheel sensor ID for correct readingECU_4FR_SENS_IDFront right wheel sensor IDECU_5RL_SENS_ID_EXTRear left wheel sensor ID for correct readingECU_6RL_SENS_IDRear left wheel sensor ID for correct readingECU_7RR_SENS_ID_EXTRear right wheel sensor ID for correct readingECU_8RR_SENS_IDRear right wheel sensor IDECU_9FL_PRESSFront left wheel pressureECU_10FR_PRESSFront right wheel pressureECU_11RL_PRESSRear right wheel pressureECU_12RR_PRESSRear right wheel pressureECU_13FL_TEMPFront left wheel pressureECU_14FR_TEMPFront right wheel temperatureECU_15RL_TEMPRear left wheel temperatureECU_16RR_TEMPRear right wheel temperatureECU_17FL_ERRORFront left wheel temperature	ECU_1	FL_SENS_ID_EXT	Front left wheel sensor ID extension for correct reading
ECU_4FR_SENS_IDFront right wheel sensor IDECU_5RL_SENS_ID_EXTRear left wheel sensor ID for correct readingECU_6RL_SENS_IDRear left wheel sensor IDECU_7RR_SENS_ID_EXTRear right wheel sensor ID for correct readingECU_8RR_SENS_IDRear right wheel sensor IDECU_9FL_PRESSFront left wheel pressureECU_10FR_PRESSFront right wheel pressureECU_11RL_PRESSRear right wheel pressureECU_12RR_PRESSRear right wheel pressureECU_13FL_TEMPFront left wheel pressureECU_14FR_TEMPFront right wheel temperatureECU_15RL_TEMPRear left wheel temperatureECU_16RR_TEMPFront right wheel temperatureECU_17FL_ERRORFront right wheel temperature	ECU_2	FL_SENS_ID	Front left wheel sensor ID
ECU_5RL_SENS_ID_EXTRear left wheel sensor ID for correct readingECU_6RL_SENS_IDRear left wheel sensor IDECU_7RR_SENS_ID_EXTRear right wheel sensor ID for correct readingECU_8RR_SENS_IDRear right wheel sensor IDECU_9FL_PRESSFront left wheel pressureECU_10FR_PRESSRear left wheel pressureECU_11RL_PRESSRear right wheel pressureECU_12RR_PRESSRear right wheel pressureECU_13FL_TEMPFront left wheel pressureECU_14FR_TEMPFront right wheel temperatureECU_15RL_TEMPRear left wheel temperatureECU_16RR_TEMPRear right wheel temperatureECU_17FL_ERRORFront left wheel temperature	ECU_3	FR_SENS_ID_EXT	Front right wheel sensor ID for correct reading
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ECU_10FR_PRESSFront right wheel pressureECU_11RL_PRESSRear left wheel pressureECU_12RR_PRESSRear right wheel pressureECU_13FL_TEMPFront left wheel temperatureECU_14FR_TEMPFront right wheel temperatureECU_15RL_TEMPRear left wheel temperatureECU_16RR_TEMPRear right wheel temperatureECU_17FL_ERRORFront left wheel temperature	ECU_8	RR_SENS_ID	Rear right wheel sensor ID
ECU_11RL_PRESSRear left wheel pressureECU_12RR_PRESSRear right wheel pressureECU_13FL_TEMPFront left wheel temperatureECU_14FR_TEMPFront right wheel temperatureECU_15RL_TEMPRear left wheel temperatureECU_16RR_TEMPRear right wheel temperatureECU_17FL_ERRORFront left wheel error	ECU_9	FL_PRESS	Front left wheel pressure
ECU_12RR_PRESSRear right wheel pressureECU_13FL_TEMPFront left wheel temperatureECU_14FR_TEMPFront right wheel temperatureECU_15RL_TEMPRear left wheel temperatureECU_16RR_TEMPRear right wheel temperatureECU_17FL_ERRORFront left wheel error	ECU_10	FR_PRESS	Front right wheel pressure
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ECU_14FR_TEMPFront right wheel temperatureECU_15RL_TEMPRear left wheel temperatureECU_16RR_TEMPRear right wheel temperatureECU_17FL_ERRORFront left wheel error	ECU_12	RR_PRESS	Rear right wheel pressure
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ECU_16RR_TEMPRear right wheel temperatureECU_17FL_ERRORFront left wheel error	ECU_14	FR_TEMP	Front right wheel temperature
ECU_17 FL_ERROR Front left wheel error	ECU_15	RL_TEMP	Rear left wheel temperature
	ECU_16	RR_TEMP	Rear right wheel temperature
ECU 19 ED EDDOD Erept right wheel error	ECU_17	FL_ERROR	Front left wheel error
	ECU_18	FR_ERROR	Front right wheel error
ECU_19 RL_ERROR Rear left wheel error	ECU_19	RL_ERROR	Rear left wheel error
ECU_20 RR_ERROR Rear right wheel error	ECU_20	RR_ERROR	Rear right wheel error