



AiM Webinar
“Tire Temps & Pressures – Where the Rubber Meets the Track”
12.8.20
Edited Q&A

1 **Q:** What AiM system requirements are there for using these third-party TPMS sensors?

A: There are actually 3 potential options here (all will at least require a RaceStudio3 managed device):

- 1) [Easy] If CAN1 is going to be used for ECU communication, get an AiM system with a secondary CAN Bus (MXS 1.2, MXP, MXG 1.2, Evo5, MXL2, PDM32/8). These units with CAN2 have pre-programmed CAN protocols for sensors like the TPMS sensors Matt talks about.
- 2) [Moderate] If CAN1 isn't being used for ECU communication, you can use it for a CAN-programmable TPMS system. There are no pre-made protocols for these sensors on CAN1, so you would need to copy the CAN IDs into a custom protocol and add it to your ECU protocols list.
- 3) [Difficult] If you have a logger with only 1 CAN Bus available (Solo2 DL, MXm, Evo4S) and you want to have ECU communication and CAN based TPMS sensors, you can create a custom CAN protocol in RS3 that incorporates both, **BUT** you will need the CAN IDs for both the ECU and the TPMS sensors (which we likely can't provide) **AND** knowledge on writing CAN protocols.

2 **Q:** Is it possible to create a math channel to measure down force on tire vs. Lat Gs vs. tire temp to determine max grip?

A: [Answered live at 19:20]

3 **Q:** What is the accuracy of the TPMS sensors?

A: [Answered live at 17:20]

4 **Q:** Will the Izzy sensors work with the AiM systems?

A: Yes.

5 **Q:** Matt, will you explain more about humidity level in tires?

A: [Answered live at 25:30]

6 **Q:** What TPMS sensors would you put on a race bike?

A: It's going to come down to which unit you're using but you could still use the same sensors Matt is talking about.

7 **Q:** As soon as the tire is no longer in contact with the track it will start to cool off. Can you provide some information that tells us how much the tire is cooling in degrees as it rotates?

A: [Answered live at 26:36]

8 **Q:** Do you see different ideal temperature spreads depending on the width of the tire?

A: [Answered live at 31:00]

9 **Q:** Does it make sense to put three sensors across a front tire if you can mount them to the axle where it would move with steering?

A: [Answered live at 42:10]