



AiM Webinar
"Data in Non-ECU Race Vehicles"
2.9.21
Edited Q&A

1) Q: What are the options to get RPM signal to an AiM logger for vehicles without an ECU?

A: AiM data loggers either have an analog RPM input wire on the main harness or an RPM harness can be ordered. You can pick up an RPM signal from one of the coils, by splicing into a tach signal wire (either factory or aftermarket) or from a tach output on an aftermarket ignition box. Sometimes, in the case of Formula Ford for example, the first few options will have a very dirty signal and a special crank RPM sensor needs to be used.

2) Q: On a Formula Vee, Should an RPM signal conditioner be added when the system is installed?

A: It will vary from car to car. Try it without the filter first. If you aren't able to get a clean signal, add an RPM filter.

3) Q: Can the MXm be mounted on the steering wheel?

A: We wouldn't recommend it. The MXm has a thick, stiff harness that comes out of the back and being mounted on the wheel will also cause problems with the accelerometers. If you need something steering-wheel-mounted, I would suggest an Evo4S with a remote GS-Dash on the wheel.

4) Q: Can you add tire pressure monitors to an MXm?

A: Technically, yes. However, most TPMS systems have a control module that operates on a CAN bus. The MXm* does not have a secondary CAN bus and the primary is set up for ECU

communication. To get around this you would have to write a custom CAN protocol** and save it as an ECU in your database so that it can be selected on CAN1.

*Note1: Many other AiM loggers do have a secondary CAN bus which makes this process easier.

Note2: We're talking about non-ECU cars here. If the vehicle in question **does have an ECU with supported communication, the custom CAN protocol would need to encompass CAN info for **both** the ECU and the TPMS system.

5) **Q:** Peter, in your opinion, what are the 3 most important sensors to have on a car?

A: [Answered live at 36:40]

6) **Q:** Can you order custom cable lengths from AiM for clean installs?

A: We don't offer custom lengths for the basic patch cables, but we do offer an option for customers to order custom hand-made harnesses.