



AiM Webinar
"Motorcycle Data"
6/2/20
Edited Q&A

1 **Q:** How can you see and view understeer and oversteer in the data?

A: [Answered live]

2 **Q:** What size and make of bike is mark riding?

A: [Answered live]

3 **Q:** Motorcycles can control front and rear brakes separately, is the graph showing front, rear, or an average between the two?

A: [Answered live]

4 **Q:** Does brake pressure need calibration? My sensor reads a negative when I am off the lever.

A: We can use live measures and custom sensor management to handle the "zero" of a brake pressure sensor. It can't be calibrated through our calibration procedure in RaceStudio. We touched on this on our last webinar located on our YouTube page.

Q2: Would it be a benefit to adjust it so off lever shows zero or just use it to show when brake is applied and not worry about the value?

A2: If it's only a few PSI in the negative, I wouldn't sweat it too much. That's within the acceptable tolerance of the sensor. In the grand scheme, 1-5 PSI on a 2000 PSI sensor is nothing.

5 **Q:** What is a typical Superbike World Championship bike brake pressure?

A: The better the brakes, the lower the necessary pressure. On the same corner on the same afternoon you might see a BMW Superbike with Brembos brake pressure of 125 PSI and a Ninja at 325 PSI.

6 **Q:** Is GPS Gyro useful in a car?

A1: It certainly has value and can help to define the rigidity of the vehicle.

A2: Yes, absolutely. We've used this in previous webinars, especially in math channels, effects from the wheels, yaw, etc.

7 **Q:** Is there a math channel for the lean angle?

A: `bike_angle(GPS_Speed,GPS_Gyro)`

8 **Q:** How often do you use modeled data (i.e. a math channel with max rpm rate of change) to interpret how close to the bikes acceleration potential you are?

A: [Answered live]

9 **Q:** Can you show this view with time-base instead of distance?

A: I'm not sure if they are going to change over. The data will be available post-webinar with the video on our YouTube channel if you would like to look at this in a different way.

10 **Q:** Is the power to weight ratio the reason for low full throttle?

A: [Answered live]

11 **Q:** Difference between throttle grip position and throttle plate angle?

A: Grip position is the percentage the throttle on the grip is turned. Throttle plate angle is the amount the plate on the throttle body is open. These will be different, as the plate will be ~10% open at idle.

12 **Q1:** Will RS3 Analysis work with a previous generation Solo DL?

A1: Yes, we will be able to import the data. There will be some options that won't work, like video/data integration.

Q2: So RS3 Analysis will not work as well when using a Smartycam and an older Solo DL?

A2: You just won't be able to do the data/video integration with an older generation logger.

13 **Q:** Could the G_sum be analyzed for bikes in the same way as cars? Is it calculated the same way for a leaned bike?

A: [Answered live]