



AiM Webinar
“What Does Good Data Look Like”
5.12.20
Edited Q&A

1 **Q:**How can I tell from the data if I’m simply driving to track out or being carried to track out?

A:[Answered live]

2 **Q:**How do you do this in a high-performance autocross car where you never “know” the course and the throttle and brakes can kill your momentum at any point on the course?

A:It may not be a fixed course, but you'll usually still do multiple runs on the same layout. Most of this should still be able to be applied, just not as highly fine-tuned.

3 **Q:**Is the good and bad different among endurance and sprint racing? Is the good and bad different in karting?

A:These good and bad practices are pretty cross-platform, though small differences are always possible.

4 **Q:**Can throttle position aid you in determining maximum effectiveness?

A:[Answered live]

5 **Q:**What should LongG look like on corners where you’re at wide open throttle?

A:We covered a lot of that info on a previous webinar. Here’s the link:
<https://youtu.be/04a70jYQp20>

6 **Q:**Should I bump up against ABS all the time?

A1:That’s a very car/setup/driver dependent question. As a general rule, like Peter said, on a street car with factory ABS, probably not. On a racecar with aftermarket ABS control, it might be ok.

A2:I always find that it is easier to brake on the limit of ABS activation. Knowing how to get to the limit, without exceeding it, is very valuable.

7 **Q:**How important is it to have a channel for brake pressure?

A:It extremely useful information to have. It allows you to see the force, not just position or on/off. It's important for both vehicle and driver feedback.

8 **Q:**Thought GPS track map was only one color? How do we change it to show multi-color with only one lap of data?

A1:Take 'per lap color' off, then go into the settings of the GPS view.

A2:You can see our previous webinar on this subject. Here's the link:
<https://youtu.be/2-8LbEpfMIQ>

9 **Q:**How do you get speed on the GPS map? I only get RPM.

A:You probably have the RPM channel selected then. Deselect RPM and select GPS Speed. The measures and lap window will activate any channel in the list on the measures graph.

10 **Q:**What does the T1 long G say? Looks like hesitation coming off.

A:[Answered live]

11 **Q:**Can you talk about the differences in shape of speed trace in corner 4 (per track map) on James Clay's lap versus the other 3?

A:[Answered live]

12 **Q:**To get GSum data do I need to create a Math Channel?

A1: Yes! $\sqrt{latAcc*latAcc+lonAcc*lonAcc}$

A2:We did a webinar were we covered this info. Here's the link:
<https://youtu.be/04a70jYQp20>

- 13** **Q:**As a driver, how do I know if the improvements that need to be made are in my driving or in the vehicle setup? Are there specific tools/protocol to identify if the core of the problem is the driver or the set up?
- A1:**Just as many co-hosts said before: peel the onion of data analysis.
- A2:**It's something that has to be looked into on several levels and you have to keep asking "why am I seeing this" until you pinpoint the cause.
- A3:**Comparison. You would need to compare data from each setup to determine which is more beneficial. Time comparison bar, splits, etc.
- A4:**[Answered live]
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- 14** **Q:**While the concept of "don't get on power until you can go wide-open-throttle" is often stated, what about cars that are heavily traction limited and have low time at WOT? Would you put more of an emphasis on G Sum and LongG than TPS?
- A:**[Answered live]
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- 15** **Q:**Is Peter using LongG's here because it is a better measure to use than throttle position, or is it because he wants to show how to use LongG's if you don't have throttle position?
- A:**[Answered live]
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- 16** **Q:**Is the 90-95% rule of thumb also applicable for gokarts?
- A:**I have found that these concepts hold true for all forms of racing. You are using all available grip, turning, accelerating and braking. Your gokart only has a certain amount of grip, find that number and work towards maximizing your time at that number.
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- 17** **Q:**What's the name of the Buddy Fey book?
- A:**Here's the link:
<https://www.amazon.it/Data-Power-Acquisition-Practical-Interpretation/dp/1881096017>
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- 18** **Q:**Can we get a list of the measures and math channels Peter uses?
- A:**[Answered live]

19 **Q:**Brake pressure, throttle position and LonG are not listed in my measurements, how can I get them?

A:That's going to depend on your system and there will probably be some other questions there. Feel free to give us a call or email and we can get into it. 800.718.9090 or support@aimsports.com

20 **Q:**Does the 90-95% of max LatG = max LonG applies to motorbikes?

A:Bikes are obviously more traction limited, but the same theory applies.