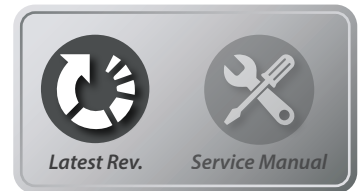


General Information

Delay in Gear Displayed on Echelon2(G) Console

Applies to: Echelon2 + Echelon2G



Some customers have noticed a multi-second delay on the Gear that is displayed on the Echelon2 and Echelon2G consoles when using the 4iii Powermeter. First and foremost it is important to understand that this delay is **NOT** a software bug.

The delay is due to the timing of how data points are captured and converted by the console. Every 1/4 second the console receives a data point, the resulting data displayed depends on if the 3 Second Average in the console settings is on or off.

By having 3 Second Average turned on, the data reported will smooth out those 3 seconds or 12 data points. While delay in accumulating those 12 data points will be noticeable, this data tends to be more stable.

If 3 Second Average is turned off, the gear and data displayed will be updated more often resulting in less of a delay, however, the data may not be as stable as the console is displaying 1:1 with the cyclical and dynamic ride data direct from the crank arm/4iii Powermeter.

To Change Setting on 3 Second Average:

1. Hold the STAGE and AVG/MAX buttons down at the same time and hold to access the service menu.
2. Use the AVG/MAX button to scroll in the service menu until "3 SEC AVE" is displayed.
3. Press the backlight button then use AVG/MAX to scroll between ON and OFF, pressing the backlight button once the selection is made to save the selection.
4. Use the AVG/MAX button to scroll until "EXIT" is displayed then press the backlight button to exit the service menu.

How Gear is Calculated on Echelon2 Power Sensor VS. 4iii Powermeter:

With Echelon2 Power Sensor:

Gear is calculated on the Echelon2 Power Sensor by interpreting the angle at which the sensor is set and assigning a gear ratio to that angle. As the angle of the brake changes with increasing or decreasing the resistance, the gear ratio will change.

With the 4iii Powermeter:

Gear is calculated based on a range of measured torque. As the torque on the user left crank arm changes throughout the ride, the gear displayed will also change.