Peak GPS Satellite Signal Locking

When the Peak GPS device is powered up it first needs to get a lock on the satellite signals, this process is known as Time to First Fix (TFF), and the time needed for a GPS lock usually depends on how quickly the GPS receiver picks up the satellite signals.

There are two types of start-up on the Peak GPS Device – Cold Start and Hot Start .

The Cold Start (approx. 5 mins)

Is when the GPS device has not been used for several hours, when the device attempts to locate satellites the previously saved satellite positions, that data has since expired. This requires the device to update the satellite locations before connecting, and is why it takes longer.

The Hot Start (approx. 1 min)

Is when the GPS device remembers its last calculated position and the satellites are in view. This happens if the device has been recently in operation.

Accuracy

GPS satellites broadcast their signals in space with a certain accuracy, but what you receive depends on additional factors, including satellite geometry, signal blockage, atmospheric conditions Accuracy source data https://www.gps.gov/systems/gps/performance/accuracy/