

DataLogger.apk Manual

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Installation

Just follow the standard procedures to install DataLogger.apk on your Android smartphone (version 2.3 or later).

Usage Notes

When you first run the Data Logger application, the service will automatically start itself if it is not already running. There will be a notification in your notification bar stating that the service has been started. Once the service is started, you may exit the program and let it collect data in the background. You will know the service is running because there will be a compass icon in your status notification bar.

When the application fixes on the required number of GPS satellites, you will get a toast message stating “GPS Fixed!” and it will begin writing to the text file. The notification description will also change from “Waiting for GPS fix” to “GPS is fixed”.

If you open the status notifications, you can touch the “Local GPS Service” notification and it will take you to the speed view where you can view your current speed. The speed view is also accessible in the main menu by touching the “Go To Speed View” button. Note that the screen will not automatically turn off if you are in the main menu or the speed view.

The Data Logger will continue to write to the same text file as long as the service is running. If you want to create a new data run, you will have to touch the “Create New Data Run” button in the main menu or stop the service and run the application again. When you create a new data run, the service will create a new text file and restart itself. The service will run indefinitely and continue to write to the text file until you stop the service by touching the “Stop GPS Service” in the main menu.

Data Files

For each run, a data file will be created and stored in Data Logger Files directory. The file names are YYYYMMDD_hhmmss_AM/PM_GPS.txt.

There are seven fields for each record: date, time, latitude, longitude, distance (m), speed (m/s), bearing (measured as the degrees East of true North).