

Hello, Joe here!

This will be a very brief summary of the workings of the code.

I used C/C++ with Arduino Libraries.

The code begins by shutting off any unused parts of the microprocessor and slows it down.

Then it starts up the sensors, and shuts it off immediately to begin the sleep cycle

It sleeps for 8 minutes before it will start its 2 min data collection.

In these 2 minutes, the data is stored on the SD card.

After 2 minutes, the device enters sleep.

If a Bluetooth device connects at this moment, it will bypass the 2 minute window

and record on both SD card and bluetooth until the bluetooth device disconnects.

This system will enter sleep again.

In any case a bluetooth device connects, the system will be woken up.

If the system is woken up during a normal sleep cycle, the SD card will not be used.

Data will only be written to the bluetooth device.

The system will enter sleep again when the bluetooth device disconnects.