



SINGAPORE'S NATIONAL SCIENCE EXPERIMENT 2016
Step up for Science!

SENSg Device Instruction Manual

Instruction Manual

1. Check that the right LED is blinking blue or pink (every 13 seconds) when it is collecting data.
2. Carry the SENSg by wearing the lanyard around your neck or clipping the SENSg securely on your belt loop.
3. The right LED will turn green if the device is trying to upload data and will turn yellow once the data upload has completed. The SENSg has been configured to upload data automatically via Wireless@SG and your school's network. For upload via your mobile phone*, configure the name of the hotspot in the Network SSID field to be "**NSE_OPEN**", and the Password field to be "**hotspot_nse**". You might want to revert to your previous mobile hotspot settings after you have uploaded the data. Refer to https://www.nse.sg/wp-content/uploads/2015/05/SENSg-Device-Instruction-Manual_08072016-1.pdf for detailed setup instructions.
4. Charge the SENSg whenever possible by using the micro USB cable provided and plugging into your PC's USB port or wall charger. The right LED will blink red if charge is required. The SENSg will take less than 3 hours for a full charge. The left LED will stay red until charging is complete.
5. Visit the website (www.nse.sg) and click "LOGIN" to access your data using the S/N and PIN provided.
6. Capture 3 special moments of each day by pressing either of the two buttons on the side of the sensor. Try and capture a morning, afternoon, and evening moment when something positive happens, and let the world know

*Your telecommunications carrier's normal rates and charges apply

Do's

1. Wear it on the move – whether you are indoors or outdoors, climbing stairs, travelling in a vehicle or walking.
2. Carry it around your neck using the provided lanyard, or clip it to your belt loop.
3. Charge the battery before it runs out, especially when you see the light blinking red.
4. Check your data at www.nse.sg (“LOGIN”) to learn big data and carry out exciting experiments.

Don'ts

1. Touch the on/off switch – it is automatic. No need to ever turn on or off, or you will risk missing your data.
2. Put it in your bag or pocket while on the move – this could affect accuracy of the results.
3. Submerge it in water, or wear it while bathing or get it wet when it rains.
4. Carry it when you are doing vigorous activities, for example, during sports or physical education.
5. Hit it against hard surfaces or throw it around, as it is a sensitive measuring device.
6. Lose the device. Keep it in a safe place when it is not in use.

Upload via Mobile Phone (For Android devices)

- a) Open your Android device's Settings menu
- b) Under the **CONNECTIONS** tab select **Tethering & portable hotspot**
- c) Check the box or turn on the switch next to “**Mobile hotspot**”
- d) Select **Mobile Hotspot**, ensure that **Allow all devices** option is selected
 - Configure the name of the hotspot in the **Network SSID** field to be “**NSE_OPEN**”, and the **Password** field to be “**hotspot_nse**”.
 - Touch **Save**.
 - In the power save options, select the option to never turn off the hotspot automatically
- e) To stop sharing your data connection after running your experiment, uncheck the box or turn off the switch next to **Mobile hotspot** in the Settings menu.
- f) You might want to revert to your previous mobile hotspot settings after you have uploaded the data

Upload via Mobile Phone (For iOS devices)

- a) Plug your iOS device into your computer and turn on iTunes
- b) When the iOS device icon shows up in iTunes on the upper left corner, click on that icon to select your iOS device.
- c) Edit the name of your iOS device to “**NSE_OPEN**” and click select **Sync**.
- d) Tap Settings > Cellular on your iOS device
- e) Tap **Personal Hotspot** and then turn it on.
- f) Change your password to “**hotspot_nse**”
- g) Until the data upload is complete, stay on the same screen and don't lock the screen to avoid network disconnection.
- h) To stop sharing your data connection after running your experiment, turn off the switch next to **Personal Hotspot** in the Settings menu.
- i) You might want to revert to your previous hotspot settings after you have uploaded the data

Upload via Mobile Phone (For Windows devices)

- a) On **Start**, flick left to the App list, tap **Settings> Internet sharing**
- b) Turn on **Sharing** by tapping it
- c) Tap **Setup**
- d) On the **Internet sharing** screen, do the following, and then tap **Done**:
 - In the **Broadcast name** box, type “**NSE_OPEN**”.
 - Tap Security type, and then tap Password required (WPA2). Change your password to “**hotspot_nse**”
- e) To stop sharing your data connection after running your experiment, turn off the switch next to **Sharing** in the Settings menu.
- f) You might want to revert to your previous hotspot settings after you have uploaded the data