

Step-by-Step Instructions for using the Multi-Sensor System Box at the Farm

This document describes how to use the portable sensor box used for taking environmental readings of a single growing shelf, using an ordered, step-by-step approach.

One set of sensor readings is required per growing bed, so 20 sets are required per shelf. One complete set of readings is taken whenever its red push-button is pressed.

Step 1:

Check the **SD card** whether it is inside the box where it is supposed to be. If the SD card is not inside place it before turning the system ON.

Power the device on by pushing the green '**ON/OFF**' button once. (Pressing it again will turn it off). The red power LED illuminates when the system is ON. Wait at least 20 seconds to allow the system to warm up after power-on before taking a reading.

Step 2:

Find a suitable location near the middle of the bed to place the multi-pronged probe. Take the probe out of its holder and push it vertically into the compost until all its metal probes are completely buried.

Step 3:

Hold the sensor-box somewhere close to the middle of that bed, and as close to the top of the mushrooms as possible.

Step 4:

Push the red **Data** button, which is positioned on the side of the box. The red **Data LED** above will illuminate briefly to indicate that the button was pressed correctly, and a set of sensor readings have been taken. Try pushing the button again if the LED fails to light. Keep the probe and sensor box in place for about 5 seconds to ensure a good set of readings are taken.

Step 5:

Remove the probe from the bed and place it back into its holder on the side of the box.

Step 6:

Keeping the box powered on, move to the next bed and repeat steps 2...5 for all 20 beds.

Step 7:

Once the end of the shelf is reached and reading taken, please switch the unit off by pressing the green ON/OFF button once more. The red power LED will extinguish.

Step 9:

Please make sure power is OFF after use. Get back to a laptop where SD card can be plugged for reading.

Step 10:

SD Check – Once a whole set of data is taken, remove the SD card and copy the data on to the data sheet on cloud. Place the SD card back into the system box. Please do not go for reading collection without SD card to avoid missing data.

Battery Check- With low battery the power LED will illuminate dim; this means the system needs charging. If it needs charging, put it on charge for some time- around 20-30 minutes. **DO NOT** plug the Charger when system is ON. Put the Switch OFF and then place the charger in.