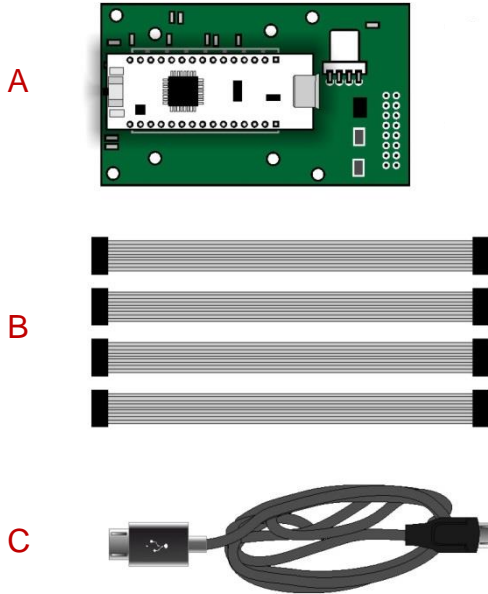


1. Check the Contents

- A. Preassembled backplane PCB (green) with STM32nucleo board (white)
- B. Ribbon cable, optional use (up to 4)
- C. USB communications cable



2. Install Software

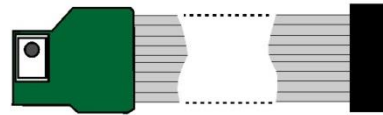
Install **Sensor Evaluation Tool**, available to download [here](#) or can be found on the page <https://ec.kemet.com/environmental-sensors/>.

Software is compatible with Windows 7, 8, 10.

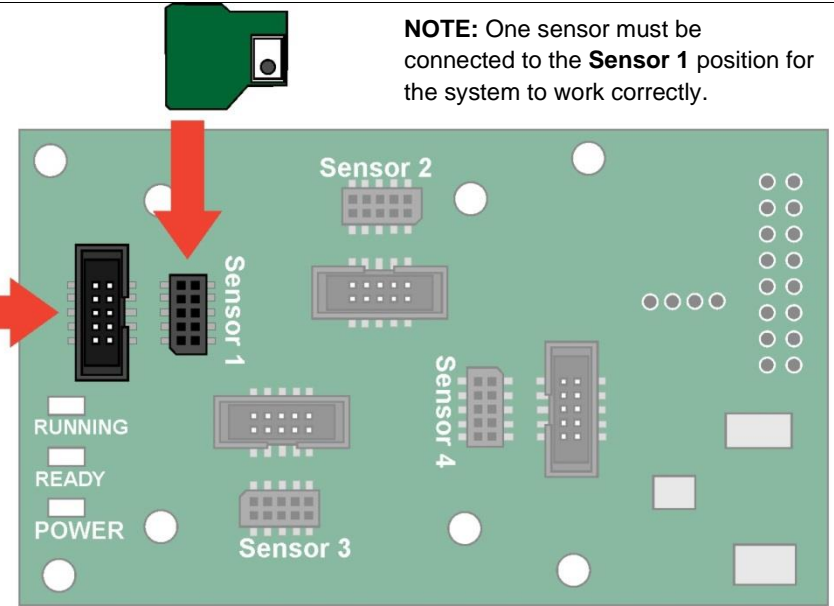


3. Populate the Backplane Board with up to 4 Sensors (Sensors not Supplied with the Backplane Board)

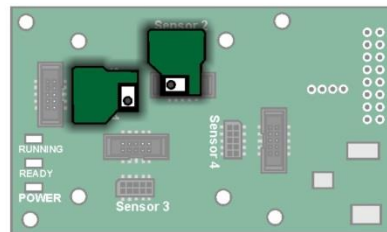
Connect sensor to the **Sensor 1** position. You can connect the sensor directly to the socket on the board or use one of the supplied extension ribbon cables.



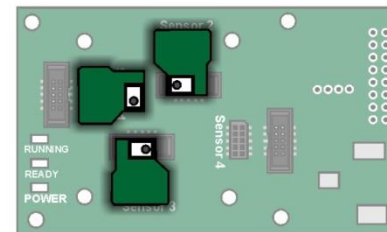
Add further sensors in numerical order. For example, if you want to use two sensors ensure they are placed in positions 1 and 2.



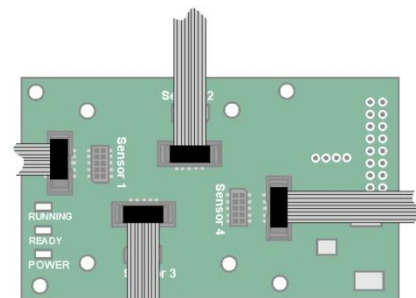
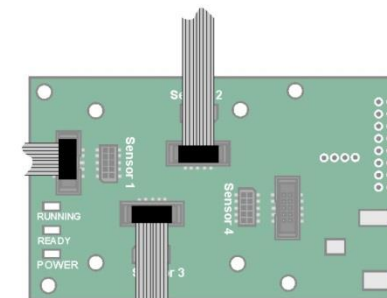
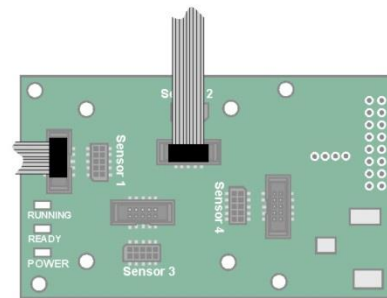
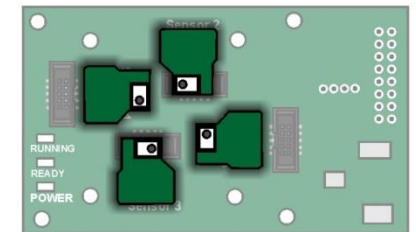
2 sensors



3 sensors

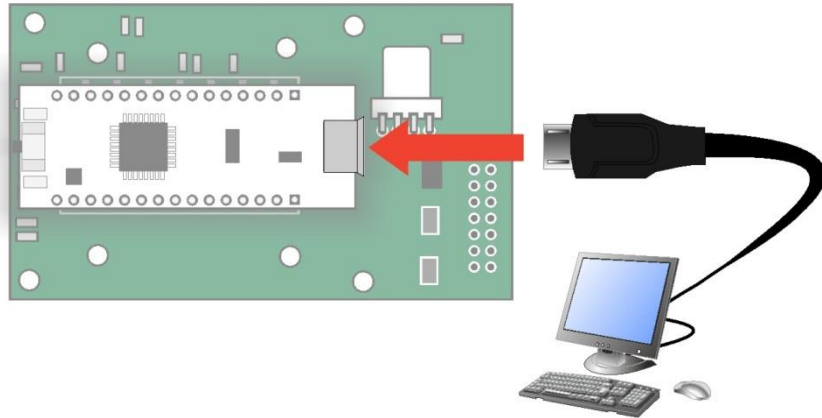


4 sensors



4. Connect Backplane Board to Computer

Insert the USB cable into a suitable port on your PC, and connect the other end into the STM32nucleo board.

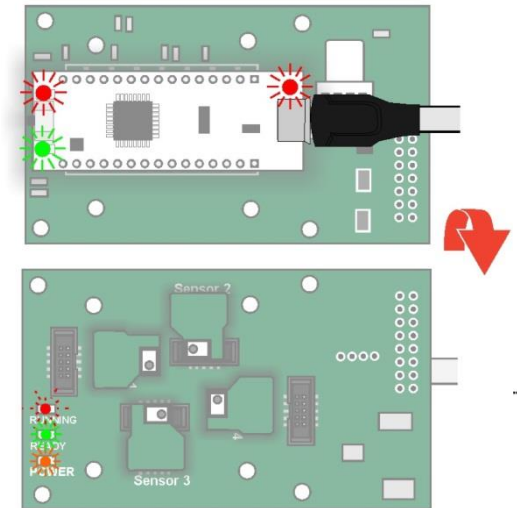


5. Check LEDs

Check that the following LEDs are illuminated.

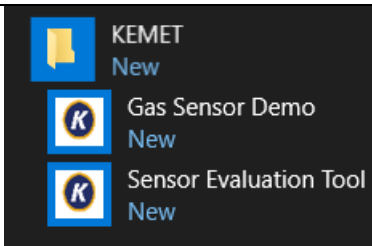
- On the STM32nucleo card:
- LD1 (red) next to USB socket
 - LD2 (red) next to Reset button
 - LD3 (green) next to Reset button
- On the sensor side of the backplane board:
- Running LED (red - flashing)
 - Ready LED (green - only lit when sensor(s) connected)
 - Power LED (amber)

If this is not the case, check that the STM32nucleo board and sensors are correctly seated and that the USB cable is connected to a powered socket.

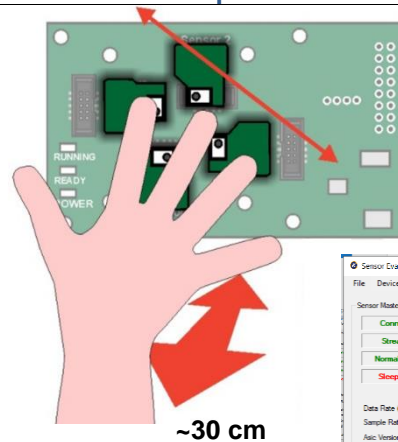


6. Run Sensor Evaluation Tool

Open the **Sensor Evaluation Tool** from the KEMET folder in the Start menu of the connected computer.

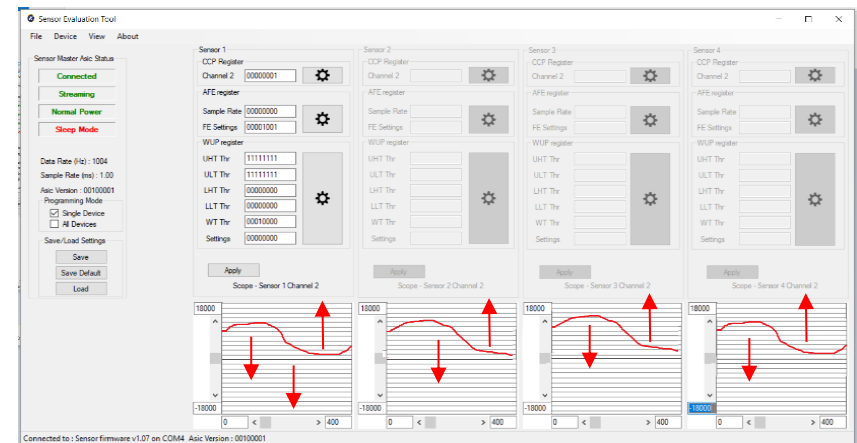


8. Check Sensor Operation



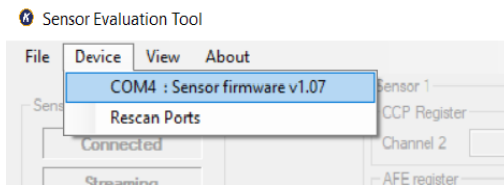
If a sensor is unresponsive, unplug it from the backplane board and then reattach, double-checking pin alignment and orientation. Restart the **Sensor Evaluation Tool**. For more details see the full *Sensor Evaluation Tool Software User Manual*.

Move your hand across the sensors and observe deflections in the traces on the screen.



7. Select Device

Select **COMxx : Sensor firmware vX.xx** from the dropdown list (where x = comport number and the firmware version number, these values may change).



If no device is shown, check all connections and then select **Rescan Ports**.