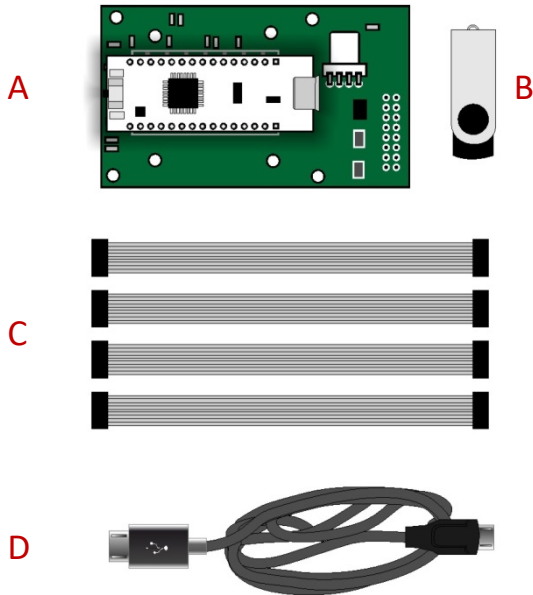


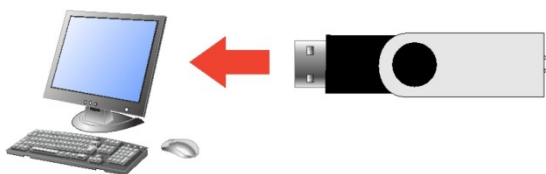
**1. Check the Contents**

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



**2. Install Software**

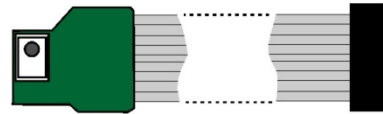
Install **Sensor Evaluation Tool** from the folder on the USB stick. Software is compatible with Windows 7, 8, 10.



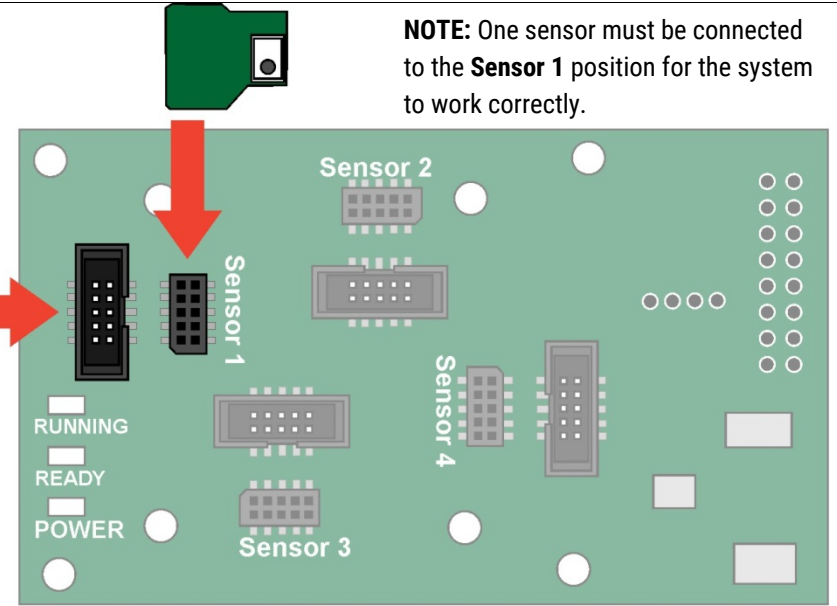
**3. Populate the Backplane Board with up to 4 Sensors (Sensors not Supplied with the Backplane Board)**

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.

**NOTE:** One sensor must be connected to the **Sensor 1** position for the system to work correctly.



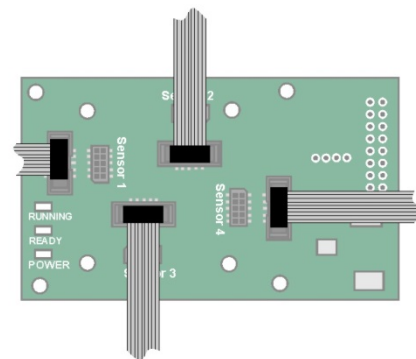
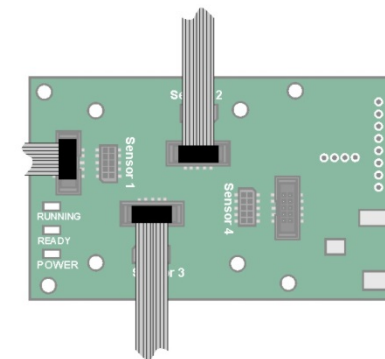
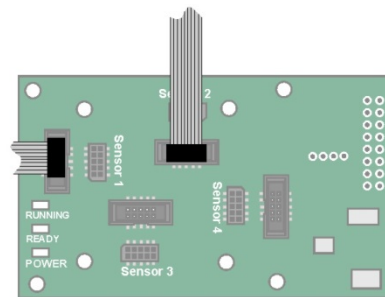
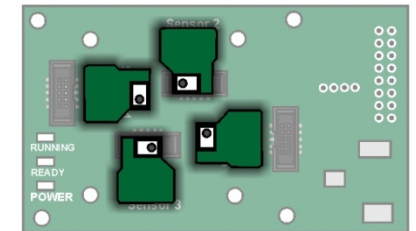
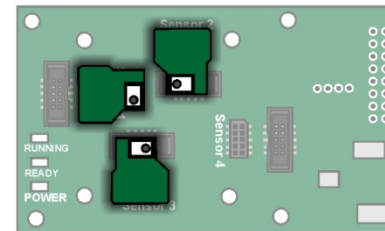
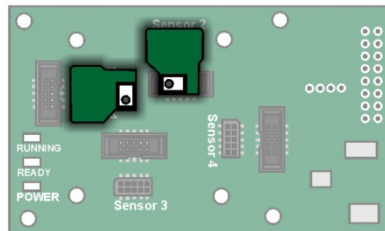
Add further sensors in numerical order. For example, if you want to use two sensors ensure they are placed in positions 1 and 2.



2 sensors

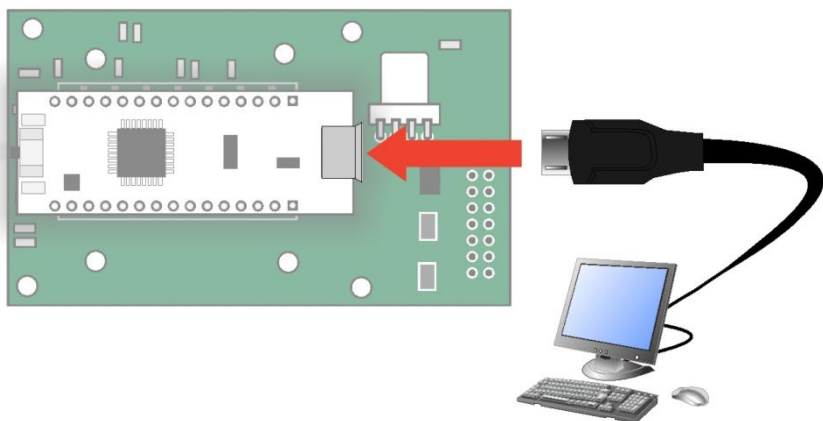
3 sensors

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.

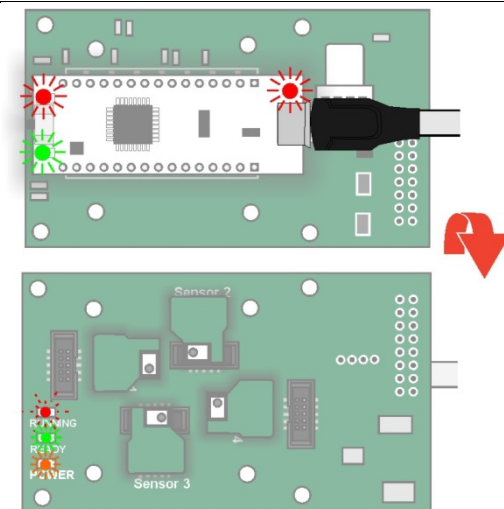
On the STM32nucleo card:

- 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:

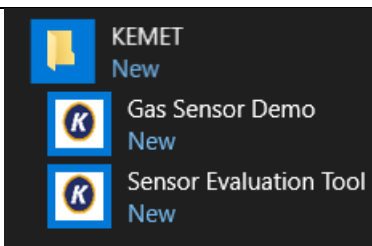
- Running LED (red - flashing)
- Ready LED (green - only lit when sensor(s) connected)
- Power LED (amber)

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.

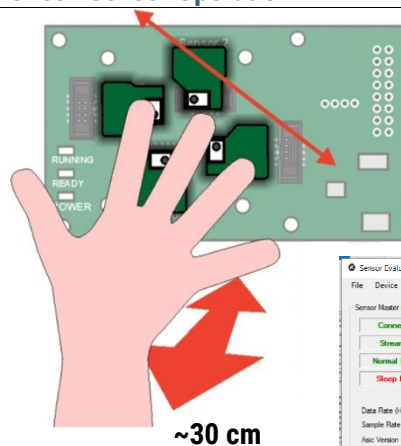


#### 6. Run Sensor Evaluation Tool

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

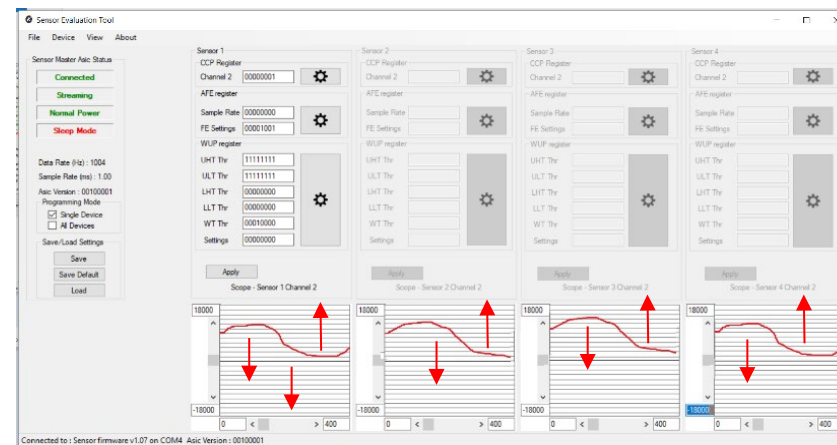


#### 8. Check Sensor Operation



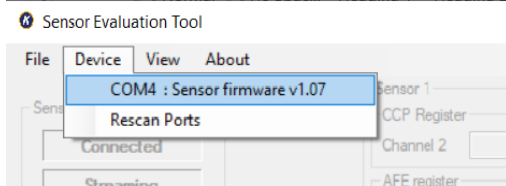
If a sensor is unresponsive, unplug it from the backplane board and then reattach, double-checking pin alignment and orientation. Restart the **Sensor Evaluation Tool**. For more details see the full Sensor Evaluation Tool Software User Manual.

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**.