# LASER TYPE PARTICULATE MATTER (PM) SENSOR SN-GCJA5L Evaluation Kit Instruction Manual na.industrial.panasonic.com/laser-type-pm-sensor-eval-kit

Panasonic

#### **ITEMS NEEDED FOR EVALUATION:**

2



Panasonic Laser PM Sensor And Lead Wire With Connector



Switch Science Arduino UNO Board



BOB-12009 Bidirectional I2C Voltage Level Shifter Using FET

4	-		-

Software For Arduino Uno



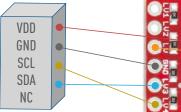
6

Software For PC application

## WIRING AND CONNECTION TO ARDUINO® UNO

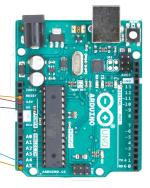


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JST Connector SHR-05V-S \*NC(blue lead) is NA

BOB-12009 Bidirectional I2C Voltage Level Shifter Using FET



Switch Science Arduino UNO Board 2

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Software For Arduino Uno €€

3



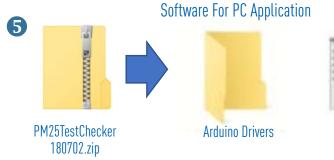
Arduino IDE (Driver) https://www.arduino.cc/en/Main/Software



\*Recommended Lead Wire AWG26

# WIRING AND CONNECTION TO ARDUINO UNO (CONT.)







180702.exe



## **TEST BOARD SETUP MANUAL**

- 1 Unzip "PM25TestChecker180702.zip"
- 2 In the "PM25TestChecker180702", there are "Arduino Drivers" folder and "PM25TestChecker180702.exe" folder.



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PM25TestChe 180702



Arduino Drivers



PM25TestChecker 180702.exe

- "Arduino Drivers" folder is for (Arduino Uno board's driver install).
- "PM25TestChecker180702.exe" is for (how to get the data with Arduino Uno board)



#### **TEST BOARD DRIVER INSTALL**

- 1 Connect Arduino Uno board to Windows PC by USB cable. The PC Windows version should be Windows7.
- 2 Install the driver automatically. (If install fails, go to number 3).
- 3 Start the device manager.
- 4 If display "Unknown device", click this file.
  - If nothing, right-click the Arduino like icon inside "port (COM and LPT)" and click software update.
- 5 Select "refer the driver software on this computer".
- 6 Select the "Arduino Drivers" folder. Check to "search sub folder also" and next.
- 7 Finish the install and confirm there is "Arduino UNO" on the port (COM and LPT). Note the port number.
- 8 If "Arduino Uno" not shown, please try again.



#### **DATA RETRIEVAL**

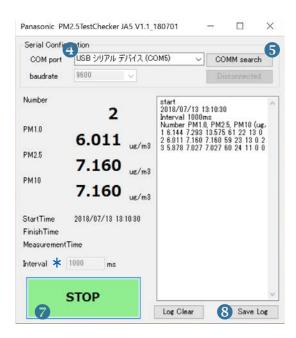
- 1 Make a copy "PM25TestChecker180702.exe" on PC.
- 2 Connect the Arduino Uno board and sensor by the connector.
- 3 Click and start "PM25TestChecker180702.exe".
- 4 Under "COM Port" please click on "COMM Search.
- 5 Otherwise click on "COMM Search.
- 6 Click on "START" and begin measuring.
- 7 Click on "STOP" to stop measuring.
- 8 Click on "SAVE LOG" to save data
- \* Interval time is fixed

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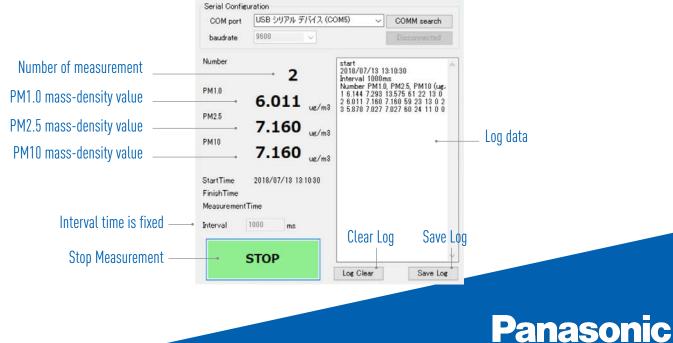
# 3

PM25TestChecker 180702.exe

Panasonic PM2.5TestChecker JA5 V1.1 180701



#### **INSTRUCTIONS FOR PM2.5 MONITORING**



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