

Probe Application Guide lines for LA series

GUVx-T1xC-xLAX



< UV measuring systems operating examples >

1. Features of LA probes

- UV light intensity measuring in Air environment
- Custom products can be supplied.
- Output type : DC 0~5V or 4 -20 mA
- NIST, KRISS traceable calibration available

2. Applications

- UV Curing system
- UV Exposure system
- UV Air purification
- Flame Sensing

3. The features and advantages of the product

- Highly visible barrier: pure ultraviolet light (UVA, UVB, UVC) sensors using. No need separate filter
- Available custom product supply to meet customer orders
- Calibration Service offers tailored to customers' requests
- Voltage of Analog type (0 ~ 5V) can provide
- 4-20mA current output
- Reliable implementation at an affordable price

4. Advantage of using a UV sensor probe

- Can accurately measure the intensity values of the Chamber inside
- UV lamp intensity control based on measure intensity
- Can be monitored ON / OFF status of UV lamp
- UV light can be seen for lamp replacement time.

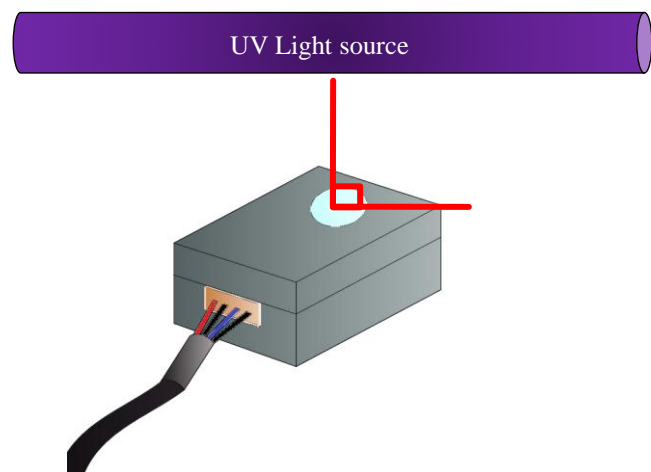
5. Point that must be taken into account in product selection

- Depend on the detection type (UVA , UVB , UVC)
 - Select maximum detection power range
 - Check the operating voltage (5V or 24V)
 - The chosen shape and length of the Connector
 - 5m Standard connection length.
- Follow customers request, able to Extend to 10m.

6. LA series summary

Product photo	Product Name	Size(mm)	Remark
	LA2	55 × 30 × 16	General Model
	LA5	36 × 30 × 16	Small size, Separable Cable
	LA6	36 × 30 × 19	Small size, Separable Cable, Adjustable output gain
	LA8	36 × 30 × 21	High Intensity UV LED(20W)

7. Installation example



- Place the sensor part from the light vertically
- Measure point is user's selection
- Maximum operation temperature is 85 °C (LA Series)

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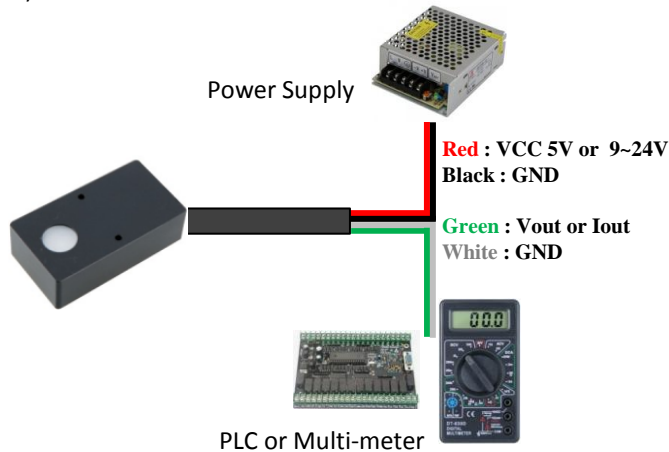
8. Wiring connections

- 1) To connect the wiring, check the connection terminals.
The color-coded terminals are available as follows.

Color	Terminals	Remark
Red	VCC	DC 5V or 24
Black	GND	
Green	Vout	DC 0~5V or 4~20 mA
White	GND	

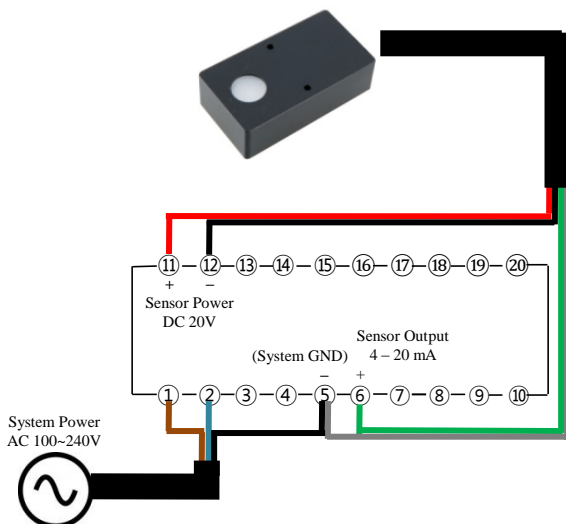
- 2) Black lines and White lines (GND) is connect to the internal Sensor probe

- 3) How to connect

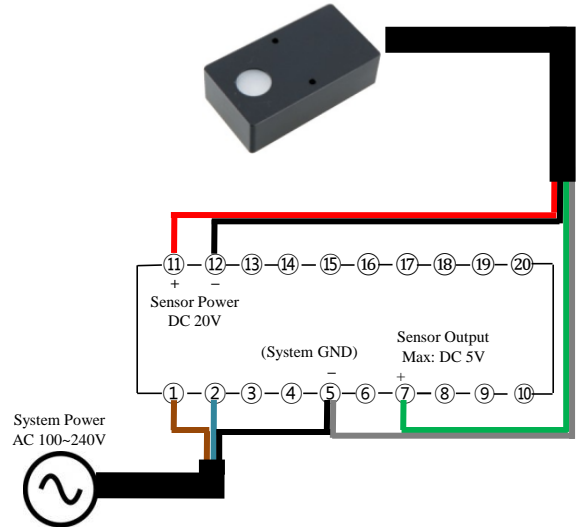


- If you connect wrong polarity it will caused the module damaged or broken.
- Black lines and white lines are connected (Short) internally.

• Connection diagram of GUVD-MG02S(I out)

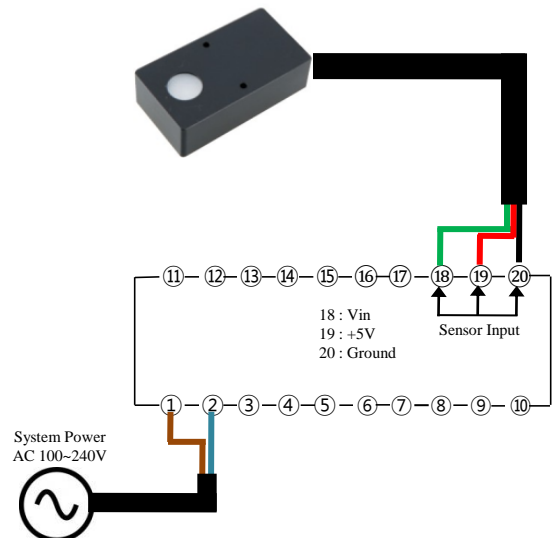


• Connection diagram of GUVD-MG02S(V out)



- 1) Connect AC power to #1 and # 2, Connect Black wire to #5(GND)
- 2) Iout : Connect Red wire to #11(VCC) , Black wire to #12(GND), White wire to #5(GND) , Green wire to #6(Iout)
Vout : Connect Red wire to #11(VCC), Black wire to #12(GND), White wire to #5(GND) , Green wire to #7(Vout)

• Connection diagram of MG-05



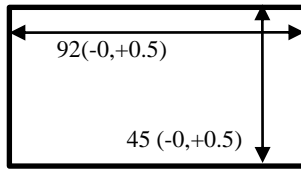
- 1) Connect AC power to #1 and # 2
- 2) Connect Green wire to #18(Vout) Red wire to #19(+5V), Black , White wire to #20 (GND)

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9. Panel cutting size

- GUVd-MG02S, GUVd-MG05S have same size

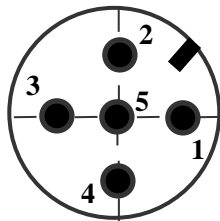
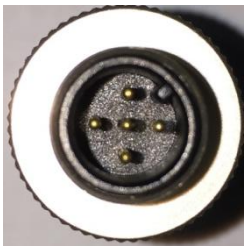


Panel Cut Out(mm)

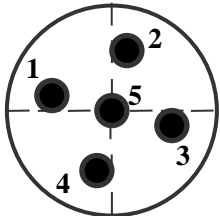
10. IP Grade

- IP grade of LA series is IP40. (Do not use underwater)

11. Connector Pin number (LO Probe)



1 : GND
3 : VCC
5 : Vout or Iout



1 : GND(Black)
3 : VCC(Red)
5 : Vout or Iout(Green)

12. Trouble shooting when the no output signal

- 1) Make sure that wiring is properly wired
- 2) Supply voltage (5V or 24V) Check if supply is being properly
- 3) Check lighting of the light source (UV lamp)
- 4) Ensure that the connectors are not separated
- 5) Ensure that the UV Sensor probe is installed correctly
 - It has been installed correctly towards the direction of the UV lamp?
 - Detection Power range is set too high compared to the amount of irradiation
 - ex) The maximum measurement range is 1,000mW / cm², and when the amount of irradiation 5mW / cm² less
- 6) Check light source (UV Lamp type) and Sensor type

13. Product Handling Precautions



- Do not expose your eyes and skin, UV light is very dangerous
- Handling the UV lamp you should wear safety gear such as goggles
- If the UVC lamp is installed in an enclosed space it will be admitted after that has adequate ventilation



When you install the product
Turn off the Power source

14. A/S request in case of product failure

- 1) Should any failure is found in product, please call the sales company or customer center for A/S
- 2) Product warranty period is 1 year from the date of procurement with no charge. However, failure which caused by user's misuse or carelessness within warrant period or any failure after the warrant period shall be chargeable for it's A/S
- 3) Product inquiry and on-line customer service :
uvsensor@geni-uv.com (<http://www.geni-uv.com>)