

# UV Sensor Probe

## GUVA-S12SC-3LWH3

### Features

- Single Supply Voltage, Analog Voltage Output
- Measure the UV Power from Sunlight

### Applications

UV Power Monitoring of Sunlight

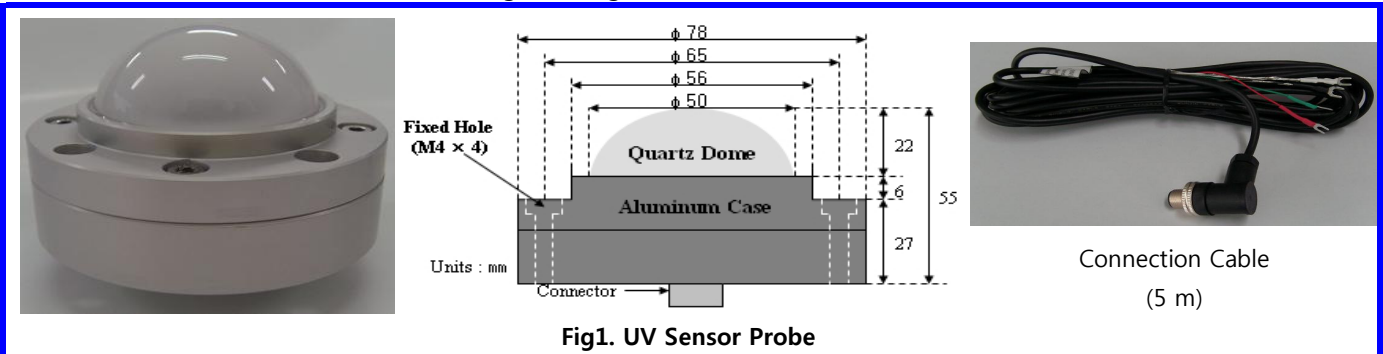


Fig1. UV Sensor Probe

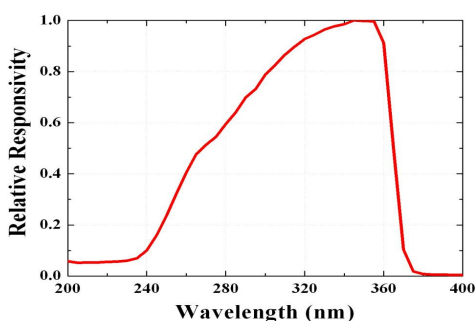
### Absolute Maximum Ratings

| Parameter             | Symbol          | Value |      |      | Unit | Remark |
|-----------------------|-----------------|-------|------|------|------|--------|
|                       |                 | Min.  | Typ. | Max. |      |        |
| Storage Temperature   | T <sub>st</sub> | -40   |      | 90   | °C   |        |
| Operating Temperature | T <sub>op</sub> | -30   |      | 85   | °C   |        |

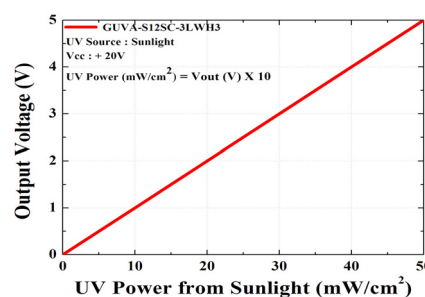
### Electro-Optical Characteristics (at 25 °C)

| Parameter                | Symbol           | Value |      |      | Unit | Remark                  |
|--------------------------|------------------|-------|------|------|------|-------------------------|
|                          |                  | Min.  | Typ. | Max. |      |                         |
| Supply Voltage           | V <sub>cc</sub>  | 9     |      | 24   | V    | Standard                |
|                          |                  | 1.8   |      | 5.5  | V    | Low Power (Option)      |
| Supply Current           | I <sub>Q</sub>   |       | 3.3  |      | mA   |                         |
| Spectral Detection Range | λ                | 240   |      | 370  | nm   | 10% of Max.             |
| Output Voltage           | V <sub>out</sub> |       | 0.1  |      | V    | at 1 mW/cm <sup>2</sup> |
| Response Time            | T                |       | 10   |      | ms   |                         |

### Relative Responsivity



### Output Voltage along UV power



$$\text{UV Power (mW/cm}^2\text{)} = \text{Vout (V)} \times 10$$