

# UV Sensor Probe

## GUVC-T10GC-5LW9



### Features

- Single Supply Voltage, Analog Voltage Output
- Water Environment

### Applications

Sterilization Lamp Monitoring

Pure UV-C Monitoring



Fig1. UV Sensor Probe

### Case dimensions

Thread/Length for Mounting	PT3/4" / 11 mm
Diameter (mm)	23
Window (mm)	12
Wrench Size (mm)	30
Depth (mm)	11.5
Length (mm)	41.5
Case Material	STS 316-L

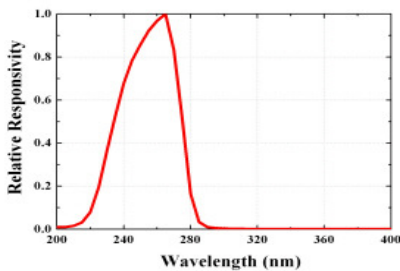
### Absolute Maximum Ratings

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

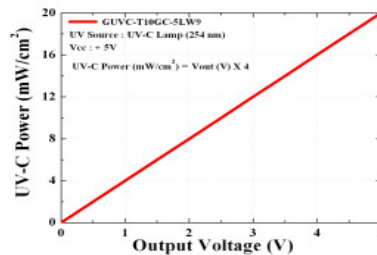
### Electro-Optical Characteristics (at 25 ℃)

Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Supply Voltage	V <sub>cc</sub>		5		V	DC
Supply Current	I <sub>Q</sub>		0.05		mA	
Spectral Detection Range	λ	220		280	nm	10% of Max.
Output Voltage	V <sub>out</sub>	0		5	V	
Detection Power Range	P	0		20	mW/cm <sup>2</sup>	
Response Time	T		5		ms	

### Relative Responsivity



### Output Voltage along UV power



$$\begin{aligned} \text{UVC Power (mW/cm}^2\text{)} \\ &= \\ &= \text{Vout (V)} \times 4 \end{aligned}$$

\* Cover thread with teflon tape or ceramo paste before turning in. Please also use a sealing ring behind thread.