

General UV Sensor Probe

GUV^{x1}-T1XGC-ILA2

(Supply Voltage: 9-24V, Current Output)



Option : x¹ : Select Detection Range

Features

- Air Environment, Single Supply Voltage, 4 ~ 20mA Current Output, Integral cable.

Applications

UV Lamp Monitoring

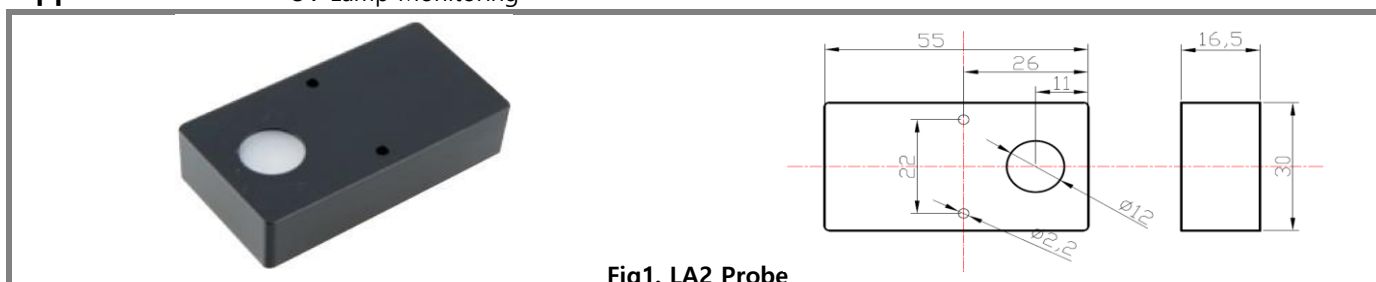


Fig1. LA2 Probe

Case Dimensions

Parameter	Size (mm)	Window (mm)	No. of fixed hole	hole to hole (mm)	Weight (g)
Dimensions	55 × 30 × 16	12	2	22	57

Absolute Maximum Ratings

Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Storage Temperature	T _{st}	-40		90	°C	
Operating Temperature	T _{op}	-30		85	°C	

Detection Range(Option)

Parameter		Product	Symbol	Value	Unit	Remark
Detection Range	UV	GUVV-T10GC-ILA2	λ	230 ~ 395	nm	10% of Max.
		GUVA-T11GC-ILA2		220 ~ 370		
		GUVB-T11GC-ILA2		220 ~ 320		
		GUVV-T10GC-ILA2		220 ~ 280		
		GUVL-T10GC-ILA2		220 ~ 320		
	Visible	GVBL-T12GC-ILA2		220 ~ 445		
		GVGR-T10GC-ILA2		300 ~ 510		

*Refer to page 2 for responsivity curve

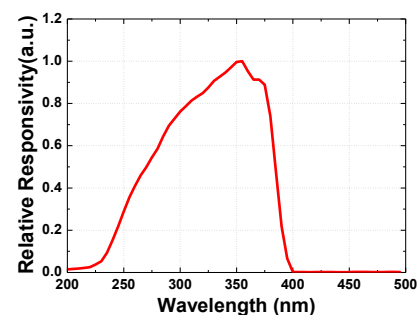
Electro-Optical Characteristics (at 25 °C)

Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Supply Voltage	V _{cc}	9		24	V	
Offset Current	I _{off}	3.9	4	4.1	mA	
Supply Current	I _Q		0.05		mA	
Output Voltage	V _{out}	4		20	mA	
Detection Power Range	P	0		100	mW/cm ²	*Standard
Response Time	T		10		ms	

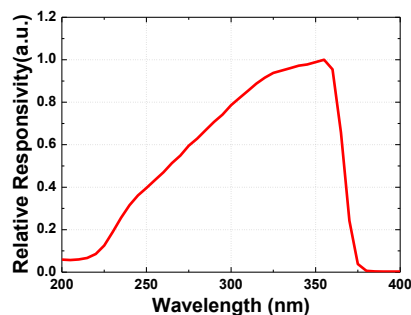
X¹ : Detection Range(GUVx-UV, GVxx-Visible)

* Order production available (20, 50, 500mW/cm² etc), Please fill out the detection power range you want when ordering

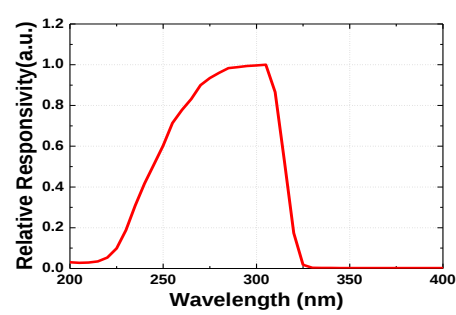
Responsivity Curve



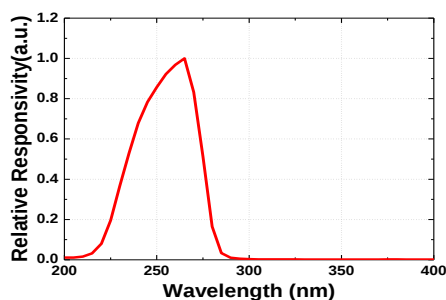
1) GUVV-T10GC-ILA2



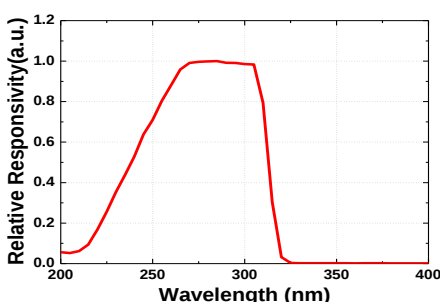
2) GUVV-T11GC-ILA2



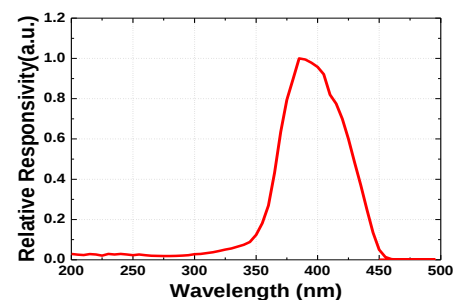
3) GUVB-T11GC-ILA2



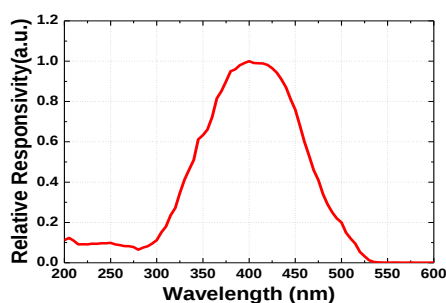
4) GUVV-T10GC-ILA2



5) GUVL-T10GC-ILA2

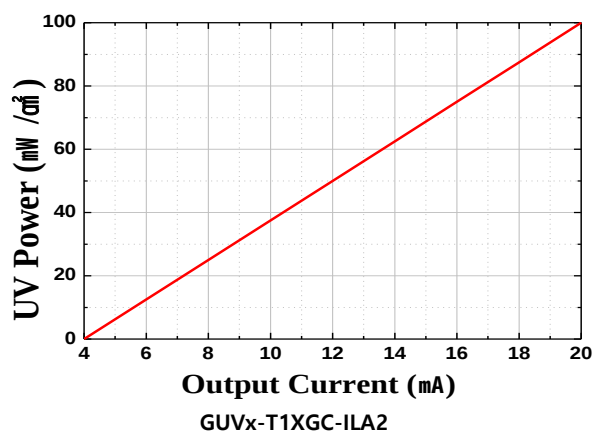


6) GVBL-T12GC-ILA2



7) GVGR-T10GC-ILA2

UV Power along Output Current



$$UV\ Power\ (mW/cm^2) = [I_{out}\ (mA) - 4] \times 6.25$$

Wiring connections



Color	Terminal	Remark
Red	V _{cc}	DC 9 ~24V
Black	GND	
Green	I _{out}	4 ~ 20mA
White	GND	

Black and White lines (GND) are connect to the internal Sensor probe.