

Affordable UV Sensor Probe for Water



GUVx¹⁾-T1x²⁾GC-5LW9

Features Water Environment (<10 bar) / Single Supply Voltage / 0-5 V Analag Voltage Output

Applications UV Power Measure UV Lamp and LED Monitoring



Fig.1. LW9 probe and 1m standard cable (IP67)

Case Dimensions

Thread/Length for Mounting	Diameter (mm)	Window (mm)	Wrench Size (mm)	Length (mm)	Weight (g)	Body Material (stainless steel)
PT3/4" / 11 mm	23	12	30	41.5	350	316-L (1.4404)

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

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	

Electro-Optical Characteristics (at 25 °C)

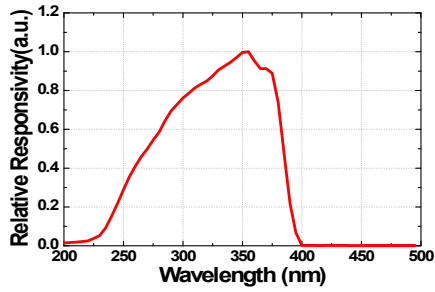
Parameter	Symbol	Value			Unit	Remark	
		Min.	Typ.	Max.			
Supply Voltage	V _{cc}		5		V _{DC}		
Supply Current	I _Q		0.05		mA		
Detection Range	GUVV-T11GC-5LW9	λ	230		395	nm	10% of Max.
	GUVA-T13GC-5LW9		220		370		
	GUVB-T12GC-5LW9		220		320		
	GUVC-T11GC-5LW9		220		280		
	GUVCL-T11GC-5LW9		220		320		
	GVBL-T13GC-5LW9		320		445		
	GVGR-T11GC-5LW9		300		510		
Output Voltage	V _{out}	0		5	V		
Detection Power Range	P	0		20	mW/cm ²	*Standard	
Response Time	T		10		ms		

* Order production available (20, 50, 100mW/cm²)

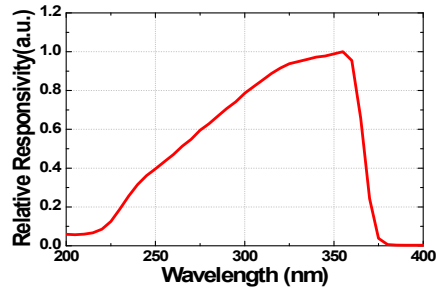
1) Detection range(GUVx-UV, GVxx-Visible)

2) Serial No. of sensor

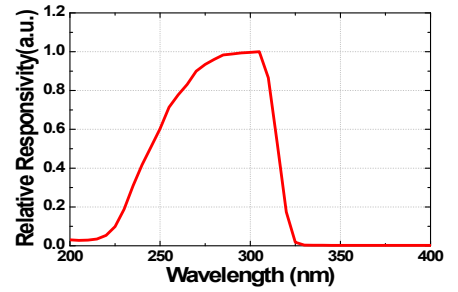
Relative Responsivity Curve



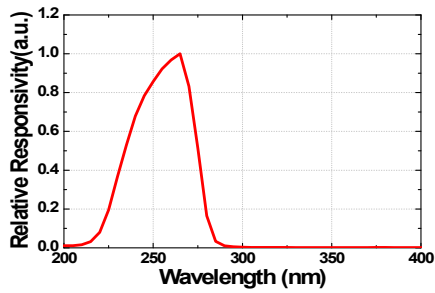
1) GUVV-T11GC-5LW9



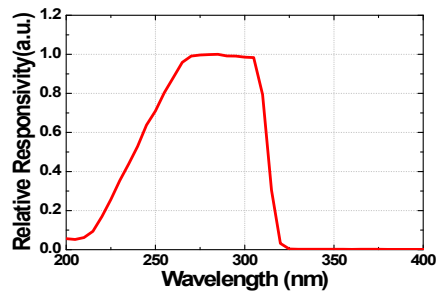
2) GUYA-T13GC-5LW9



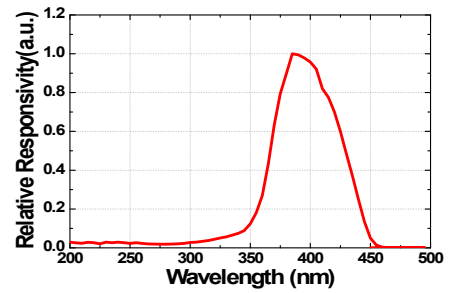
3) GUVB-T12GC-5LW9



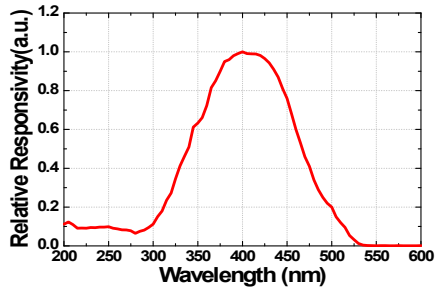
4) GUVV-T11GC-5LW9



5) GUVCL-T11GC-5LW9

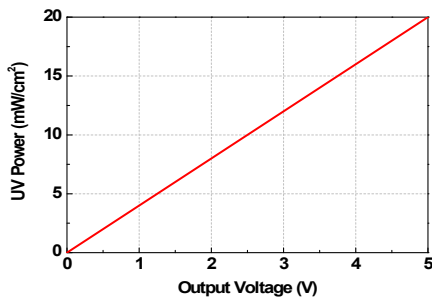


6) GVBL-T13GC-5LW9



7) GVGR-T11GC-5LW9

UV Power along Output Voltage



GUVx-T1xGC-5LW9

$$\text{UV Power (mW/cm}^2\text{)} = V_{\text{out}} \text{ (V)} \times 4$$