



# UV Sensor Probe

## GUV<sub>x</sub>-T1<sub>x</sub>GC-I8LW5



### Features

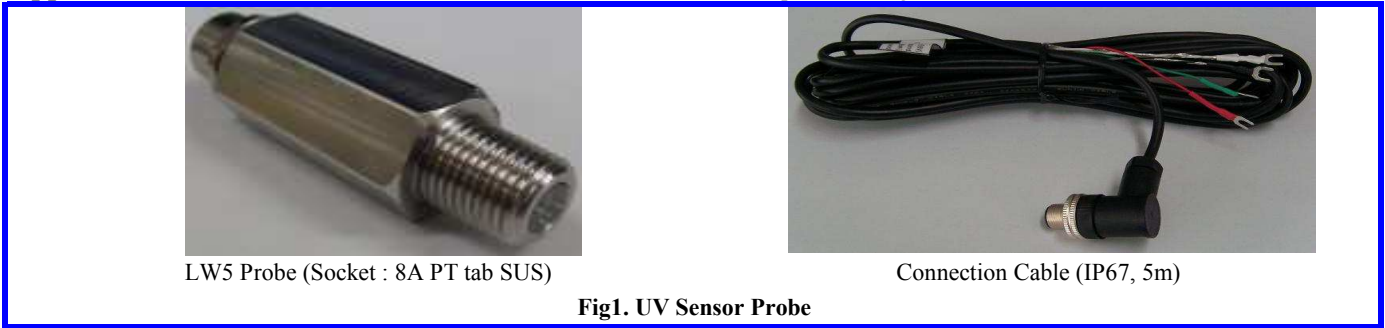
Water Environment (<10 bar)

Single Supply Voltage, 4-20mA Current Output

### Applications

UV Power Measure

UV Lamp Monitoring



LW5 Probe (Socket : 8A PT tab SUS)

Connection Cable (IP67, 5m)

**Fig1. UV Sensor Probe**

### Case dimensions

Thread/Length for Mounting	Diameter (mm)	Window (mm)	Wrench Size (mm)	Length (mm)	Weight (g)	Body (stainless steel)
PT1/4 " / 12 mm	21	7	19	63	67	316L (1.4404)

### Absolute Maximum Ratings

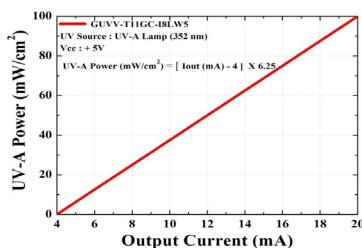
Parameter	Symbol	Min.	Typ.	Max.	Unit	Remark
Storage Temperature	T <sub>st</sub>	-40		90	°C	
Operating Temperature	T <sub>op</sub>	-30		85	°C	

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

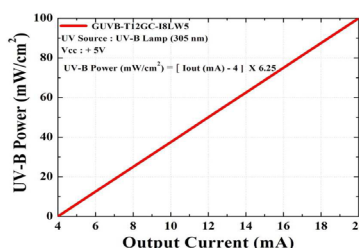
Parameter	Symbol	Min.	Typ.	Max.	Unit	Remark
Supply Voltage	V <sub>cc</sub>	9		24	V	DC
Offset Current	I <sub>off</sub>	3.9	4	4.1	mA	
Detection Range	GUVV-T11GC-I8LW5	λ	230	395	nm	10% of Max.
	GUVB-T12GC-I8LW5	λ	220	320	nm	10% of Max.
	GUVC-T11GC-I8LW5	λ	220	280	nm	10% of Max.
Output Current	I <sub>out</sub>	4		20	mA	
Detection Power Range	P	0		100	mW/cm <sup>2</sup>	
Response Time	T		10		ms	

\* Maximum of detection power : 20 mW/cm<sup>2</sup> (Option), 100 mW/cm<sup>2</sup> (Standard), 1000 mW/cm<sup>2</sup> (Option)

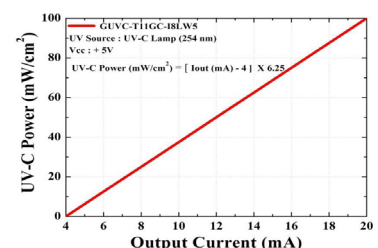
### Output Current along UV power



GUVV-T11GC-I8LW5



GUVB-T12GC-I8LW5



GUVC-T11GC-I8LW5

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