



# Electro Optical Components, Inc.

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## UV Sensor Probe GUVV-T10GC-DVGW-160



### Features

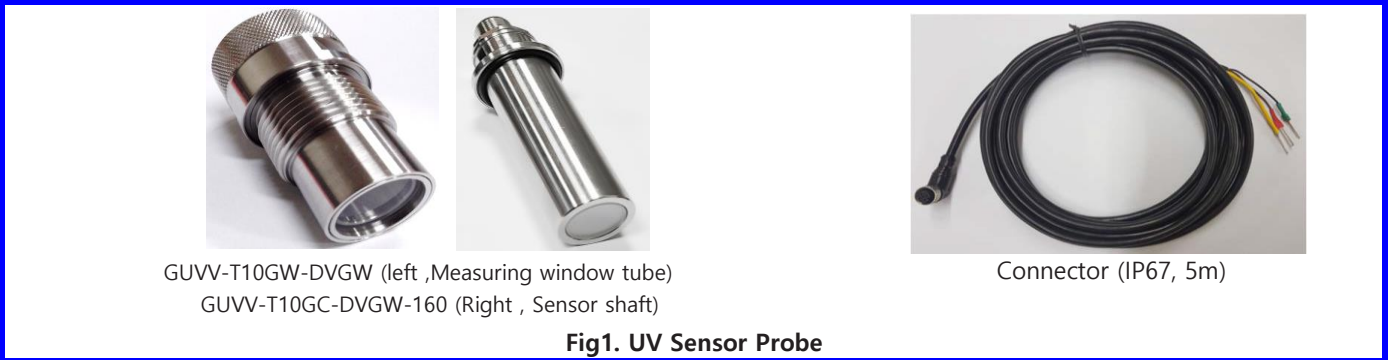
- Single Supply Voltage, 2 wire 4-20 mA Current Output
- Water Environment (10 bar)
- UV sensor Probe complies with 160° specification in standard DVGW W294-3(2006)

### Applications

Sterilization Lamp Monitoring

Full UV Band Monitoring

UV-A Lamp Monitoring



GUVV-T10GW-DVGW (left ,Measuring window tube)  
GUVV-T10GC-DVGW-160 (Right , Sensor shaft)



Connector (IP67, 5m)

Fig1. UV Sensor Probe

### GUVV-T11GW-DVGW (Measuring window tube) Dimensions

Thread/Length for probe hold	Diameter (mm)	Window (mm)	Depth (mm)	Length (mm)	Weight (g)	Body (stainless steel)
G 1" / 34 mm	32	24	59	94	660	316-L ( 1.4404 )

### GUVV-T11GC-DVGW (Sensor shaft) Dimensions

Thread/Length for probe hold	Diameter (mm)	Window (mm)	Depth (mm)	Length (mm)	Weight (g)	Body (stainless steel)
-	20	16	66	83	120	316-L ( 1.4404 )

### Absolute Maximum Ratings

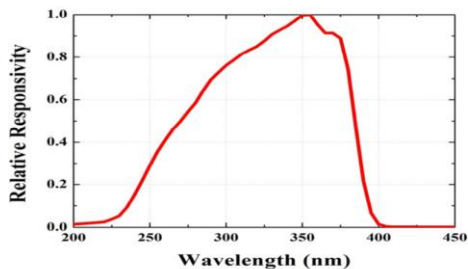
Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Storage Temperature	T <sub>st</sub>	-40		90	°C	
Operating Temperature	T <sub>op</sub>	-30		85	°C	

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

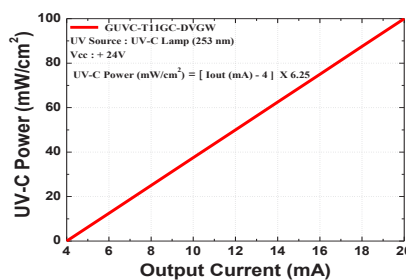
Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Supply Voltage	V <sub>cc</sub>		24		V	DC
Offset Current	I <sub>off</sub>		4		mA	
Spectral Detection Range	λ	230		395	nm	10% of Max.
Output Current	V <sub>out</sub>	4		20	mA	
Detection Power Range	P	0		100	mW/cm <sup>2</sup>	V <sub>cc</sub> = 24 V
Response Time	T		5		ms	

\* Maximum of detection power : 10 mW/cm<sup>2</sup> (Option), 100 mW/cm<sup>2</sup> (Standard), 1000 mW/cm<sup>2</sup> (Option)

### Relative Responsivity



### Output Current along UV power



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

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