<Preliminary>

High temperature·High power·Narrow space UV probe



GUVx¹⁾-T1XGC-ILO3(Supply Voltage: 24V, Current Output)

Features

- High Temperature Environment (under 300°C)
- Very Flexible Optical Fiber (Min. R20)
- High power front measurement
- UVV/UVA/UVB/UVC/Visible Detection
- Narrow space measurement
- 4~20mA current output



Information

Part Name	Sensor Part	Optical Fiber		
Image		Fixing hole Φ2*2ea		
Dimension	57 * 37 * 21 mm	Cable: Φ5.0 / Core: 1.5 mm Head part: 8*14*5mm / Light-receiving unit(4*4mm)		
Material	Al-60 / Black anodizing	Fiber : SUS 304 casing / Head part : Aluminium		
Operating Temperature	-30 ~ 85 ℃	- 30 ~ 300 ℃		
Cable Length	Strandard : 5 m	Strandard : 1.5 m		
•	(the other length optional)	(the other length optional)		
Radius of	-	Very flexible (Min. R20)		
Culvature		, , ,		
Output Type	Voltage or Current	-		
Remarks	Includes cable	SMA905 connector / Φ2-2ea Fixing hole		

Detection Range(Option)

Parameter	Product	Symbol	Value	Unit	Remark
	GUVV-T10GC-ILO3	λ	230 ~ 395	nm	10% of Max.
	GUVA-T11GC-ILO3		220 ~ 370		
Detection Range	GUVB-T11GC-ILO3		220 ~ 320		
	GUVC-T10GC-ILO3		220 ~ 280		
	GVBL-T12GC-ILO3		330 ~ 445		
	GVGR-T10GC-ILO3		300 ~ 510		

*Refer to page 2 for responsivity curve

Electro-Optical Characteristics (at 25 °C)

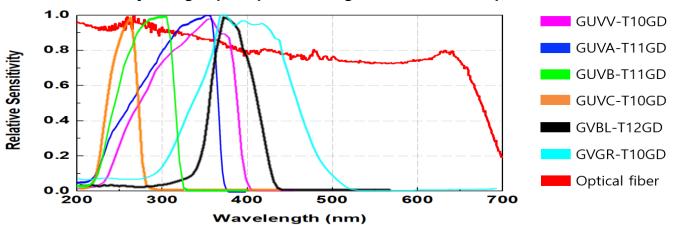
Parameter	Symbol	Value		Unit	Remark	
Parameter	Symbol	Min.	Тур.	Max.	Onit	Remark
Supply Voltage	V_{cc}	9		24	V	
Offset Current	I _{off}	3.9	4	4.1	mA	
Supply Current	I_Q		0.05		mA	
Output Current	I _{out}	4		20	mA	
Detection Power Range	Р	0		100	mW/cm²	*Standard
Response Time	T		10		ms	

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

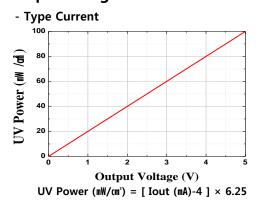
^{*} Customizing available (20, 50, 500mW/m², Max.10W/m² etc), Please fill out the detection power range you want when ordering



Relative Sensitivity along Input Spectrum (Light source : Xe-lamp)



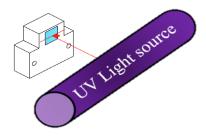
Output along UV Power



Characteristics of Optical Fiber

Resistant Glass Fiber			
Core diameter	45 μm		
Clad diameter	50 μm		
NA	0.57		
Operating Temp.	-60 ~ 250 °C (MAX. 300 °C)		

How to install



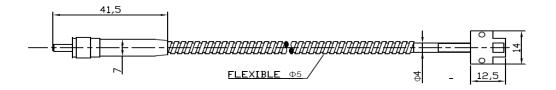
Install so that it is perpendicular to the light source.

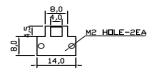


Dimensions (Unit:mm)

- Optical fiber

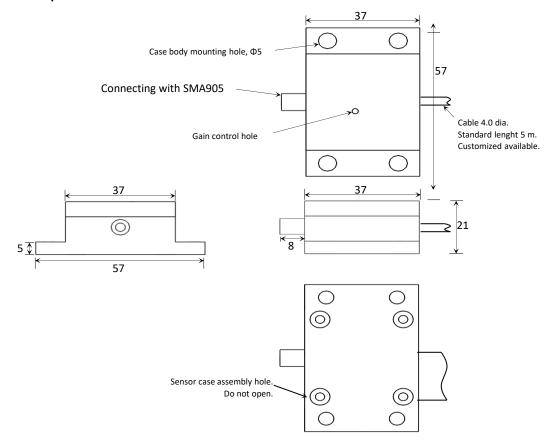






Material: Fiber-Stainless steel (SUS304), Head part-AL-60

- Sensor part



Material: Al-60 (Black anodizing)

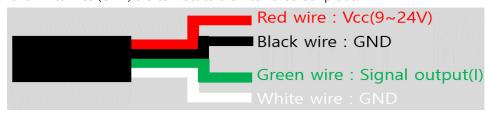


Wiring Connections

• To connect the wiring, check the connection terminals. The color-coded terminals are available as follows.

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

• Black and white lines (GND) are connect to the internal sensor probe.



※ If you connect wrong polarity it will cause the probe damaged or broken.□

Trouble Shooting and precaution

Please make sure that you understand the following before using.

- Do not use these units in locations with flammable or explisive gases.
- Do not use these units in the water.
- Do not attempt to disassemble, repair, or improve these products.
- Do not use AC power supply.
- Be sure that wiring of Sensor part is correct, such as the polarity of the power supply leads.
- Make sure that the power supply voltage is to match with operation voltage.

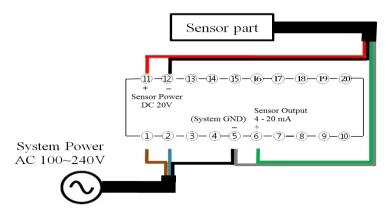
The operating voltage is 9~24V.

- Output signal noise will be excessive if the power supply is not grounded.
- UV light is harmful, turn off the UV light source before installing the Head part.
- The analog output value will change due to temperature drift.
- The gain control hole of Sensor part is not protected against UV exposure.
- The SMA905 connector of optical fiber is connect with sensor part, please fix using the Φ2-2ea fixing hole of Head part



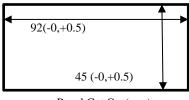
Connections with Genicom's Radiometers

- MG-02 (I_{out})
 - Connection AC power to #1 and #2, and connect GND wire #5.
 - Connect Red wire to #11 (V_{cc}), Black wire to #12 (GND), White wire to #5 (GND), Green wire to #6 (I_{out}).



Panel Cutting Size

• MG-02



Panel Cut Out(mm)

A/S Request in Case of Product Failure

- Should any failure is found in product, please call the sales company or customer center for A/S.
- Product warranty period is 1 year from the date of procurement with no charge.

 However, failure which is caused by user's misuse or carelessness within warrant period or any failure after the warrant period shall be chargeable for it's A/S.
- Product inquiry and on-line customer service

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