

UV Sensor Probe

GUVB-S11SC-I8H3

Features

- Single Supply Voltage, 4-20 mA Current Output
- Measure the UV Index from Sunlight

Applications

UV Index Monitoring

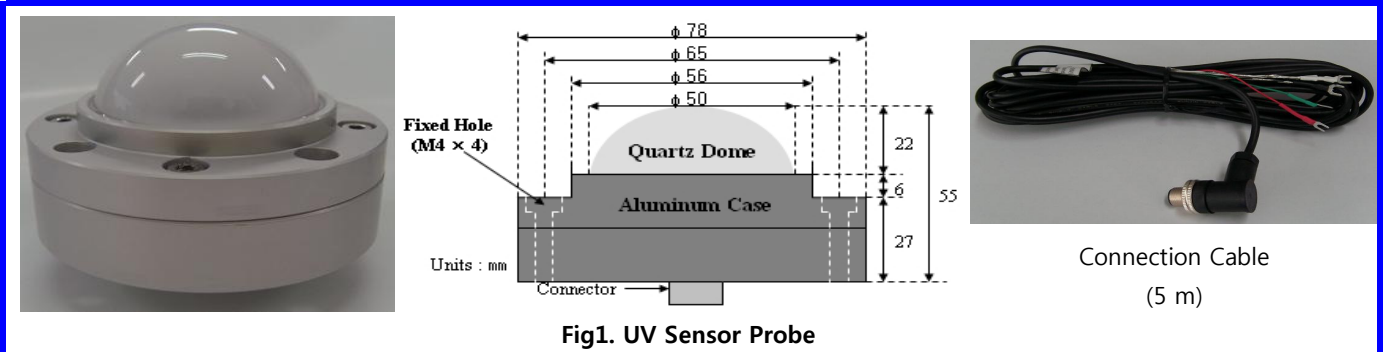


Fig1. UV Sensor Probe

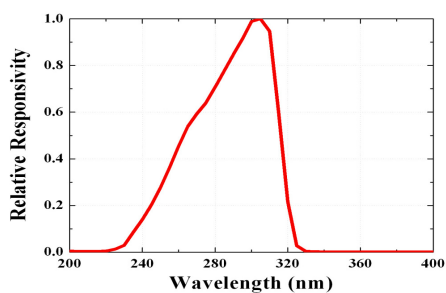
Absolute Maximum Ratings

Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Storage Temperature	T_{st}	-40		90	$^{\circ}C$	
Operating Temperature	T_{op}	-30		85	$^{\circ}C$	

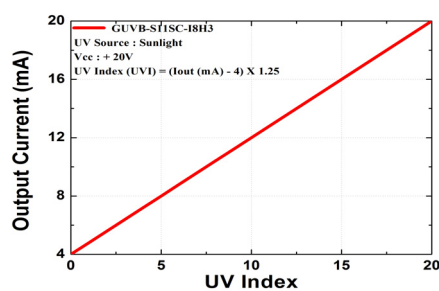
Electro-Optical Characteristics (at 25 $^{\circ}C$)

Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Supply Voltage	V_{cc}	9		24	V	DC
Offset Current	I_Q	3.9	4	4.1	mA	
Spectral Detection Range	λ	280		400	nm	Erythema Weighting Factor
Output Current	I_{out}	4		20	mA	
Detection Power Range		0		20	UVI	
Response Time	T		10		ms	
Load Resistor	R_L			500	Ω	

Relative Responsivity



Output Voltage along UV Index



$$\text{UV Index (UVI)} = [I_{out} (mA) - 4] \times 1.25$$