

UV Sensor Probe


GUVB-S11SC-I8H3

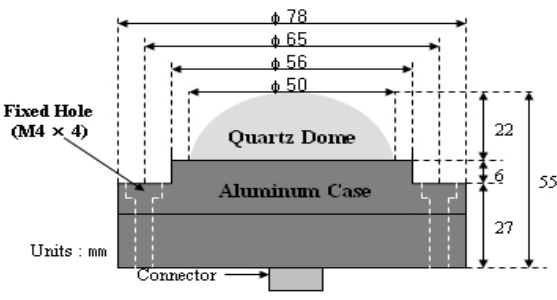


Features

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

Applications UV Index Monitoring








Fig1. UV Sensor Probe

Connection Cable
(5 m)

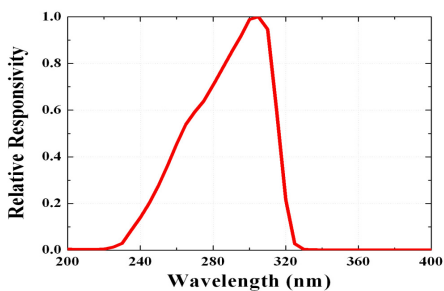
Absolute Maximum Ratings

Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Storage Temperature	T _{st}	-40		90	°C	
Operating Temperature	T _{op}	-30		85	°C	

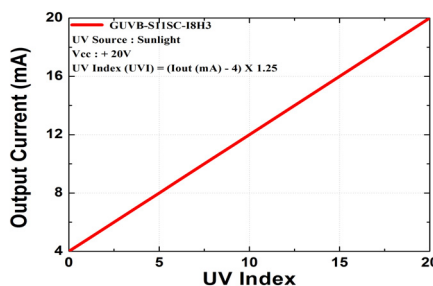
Electro-Optical Characteristics (at 25 °C)

Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Supply Voltage	V _{cc}	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



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