

UV Sensor Probe

GUVA-S12SC-I8H3

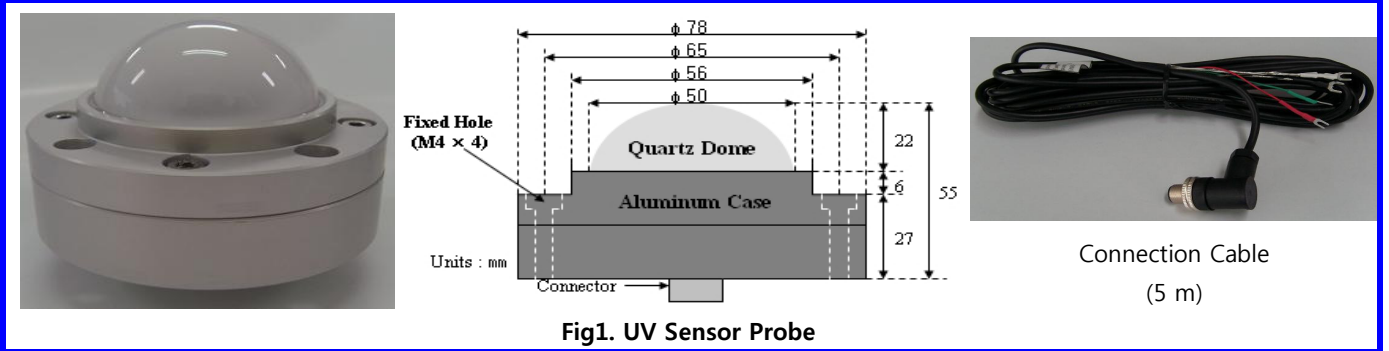


Features

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

Applications

UV Power Monitoring of Sunlight



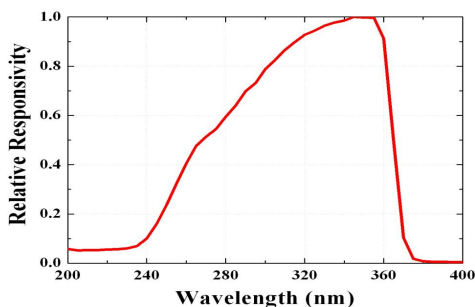
Absolute Maximum Ratings

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

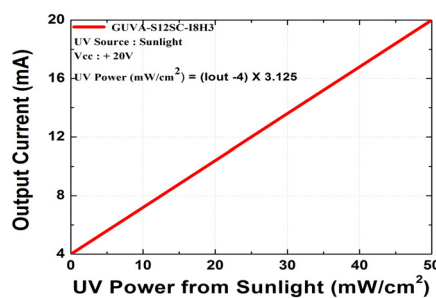
Electro-Optical Characteristics (at 25 $^{\circ}C$)

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	240		370	nm	10% of Max.
Output Current	I_{out}	4		20	mA	
Detection Power Range	P	0		50	mW/cm^2	
Response Time	T		10		ms	
Load Resistor	R_L			500	Ω	

Relative Responsivity



Output Voltage along UV power



$$UV\ Power\ (mW/cm^2) = [I_{out}\ (mA) - 4] \times 3.125$$