

UV-C Sensor Probe

GUV-C-T11GC-I7LW11



Features

- Single Supply Voltage, 3 wire 4-20 mA Current Output
- Water Environment (10 bar)

Applications

Sterilization Lamp Monitoring

Pure UV-C Monitoring

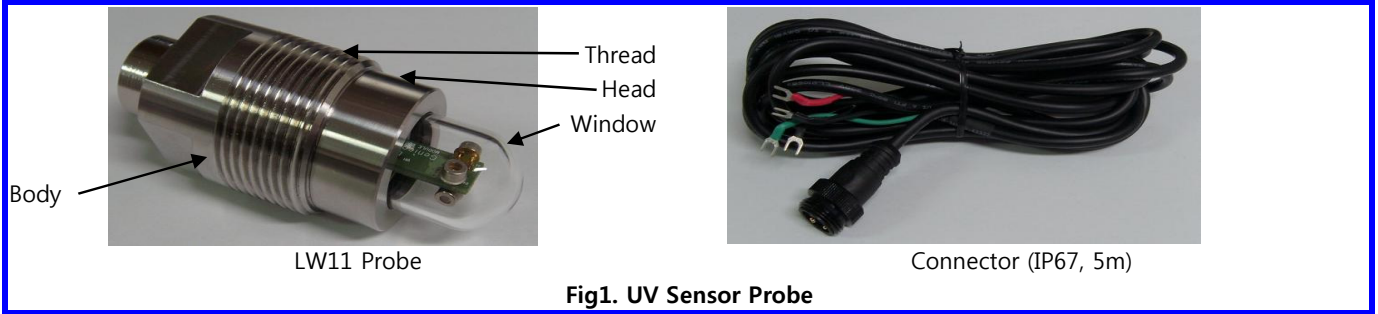


Fig1. UV Sensor Probe

Case dimensions

| Thread/Length for Mounting | Body (mm) | Window (mm) | Head (mm) | Wrench Size (mm) | Length (mm) | Weight (kg) | Body (stainless steel) |
|----------------------------|-----------|-------------|-----------|------------------|-------------|-------------|------------------------|
| PT 1¼ "/21 mm | Φ42 | Φ24×24 | Φ36×15 | 36 | 81 | 0.44 | 316-L (1.4404) |

Absolute Maximum Ratings

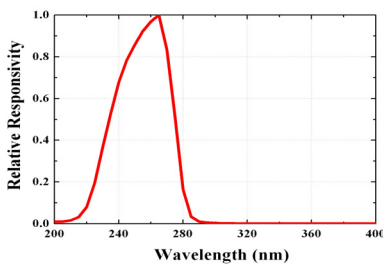
| Parameter | Symbol | Value | | | Unit | Remark |
|-----------------------|-----------------|-------|------|------|------|--------|
| | | Min. | Typ. | Max. | | |
| Storage Temperature | T _{st} | -40 | | 90 | °C | |
| Operating Temperature | T _{op} | -30 | | 85 | °C | |

Electro-Optical Characteristics (at 25 °C)

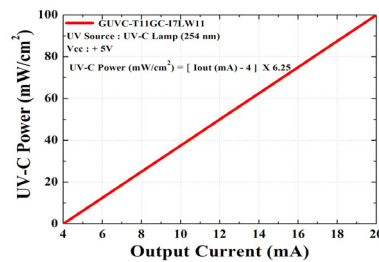
| Parameter | Symbol | Value | | | Unit | Remark |
|--------------------------|------------------|-------|------|------|--------------------|-------------------------|
| | | Min. | Typ. | Max. | | |
| Supply Voltage | V _{cc} | 9 | | 24 | V | DC |
| Offset Current | I _{off} | | 4 | | mA | |
| Spectral Detection Range | λ | 220 | | 280 | nm | 10% of Max. |
| Output Current | V _{out} | 4 | | 20 | mA | |
| Detection Power Range | P | 0 | | 100 | mW/cm ² | Total power of 4 sensor |
| Response Time | T | | 10 | | ms | |

* Maximum of detection power : 20 mW/cm² (Option), 100 mW/cm² (Standard)

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.