

Temperature&UV Sensor Probe

GUVx-T1xGC-TLW10



| | | |
|---------------------|-----------------------------|--|
| Features | Water Environment (<10 bar) | Single Supply Voltage, 0-5V Voltage Output |
| Applications | UV Power Measure | UV Lamp Monitoring, Temperature Monitoring |



LW10 Probe (Socket : 20A PT tab SUS)



Connection Cable (IP67, 5m)

Fig1. Temperature&UV Sensor Probe

Case dimensions

| Thread/Length for Mounting | Diameter (mm) | Window (mm) | Wrench Size (mm) | Length (mm) | Weight (g) | Body (stainless steel) |
|----------------------------|---------------|-------------|------------------|-------------|------------|------------------------|
| PT3/4 " /16 mm | 30 | 7 | 26 | 62 | 200 | 316-L (1.4404) |

Absolute Maximum Ratings

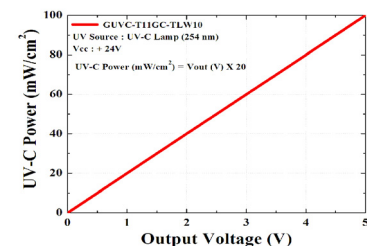
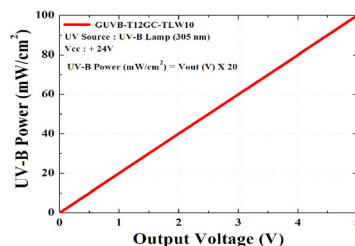
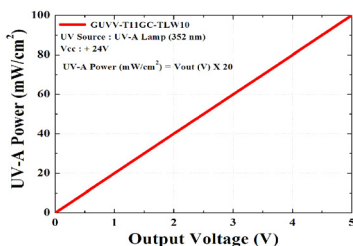
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Remark |
|-----------------------|-----------------|------|------|------|------|--------|
| Storage Temperature | T _{st} | -40 | | 90 | °C | |
| Operating Temperature | T _{op} | -30 | | 85 | °C | |

Electro-Optical Characteristics (at 25 °C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Remark |
|-----------------------------|------------------|------|------|------|--------------------|-----------------------|
| Supply Voltage | V _{cc} | 9 | | 24 | V | DC |
| Supply Current | I _Q | | 3.3 | | mA | |
| Detection Range | GUVV-T11GC-TLW10 | λ | 230 | 395 | nm | 10% of Max. |
| | GUVB-T12GC-TLW10 | λ | 220 | 320 | nm | 10% of Max. |
| | GUVC-T11GC-TLW10 | λ | 220 | 280 | nm | 10% of Max. |
| Output Voltage | V _{out} | 0 | | 5 | V | |
| Detection Power Range | P | 0 | | 100 | mW/cm ² | |
| Detection Temperature Range | T _a | -40 | | 125 | °C | tolerance within ±2°C |
| Response Time | T | | 10 | | ms | |

* Maximum of detection power : 20 mW/cm² (Option), 100 mW/cm² (Standard), 1000 mW/cm² (Option)

Output Voltage along UV power



UV Power (mW/cm²) = Vout (V) × 20

* Cover thread with teflon tape or ceramo paste before turning in. Please also use a sealing ring behind thread.