

Turnkey control solution enables lighting manufacturers to bring next generation tunable lighting to market with minimal development time

Bring advanced software lighting control to any fixture with up to 2 channels; wires directly to power supply

Typical 500 feet indoor range

10V PWM output

Works with GrowFlux App for iOS and Android, browser based dashboard; open access to control through API (Access Point required)

High performance wireless connectivity for hundreds of lights

Each device comes with cloud services included for basic dimming, scheduling, and zoning (subject to Terms of Service)

Functions without internet connectivity or GrowFlux Access Point: silicone buttons offer manual control in steps

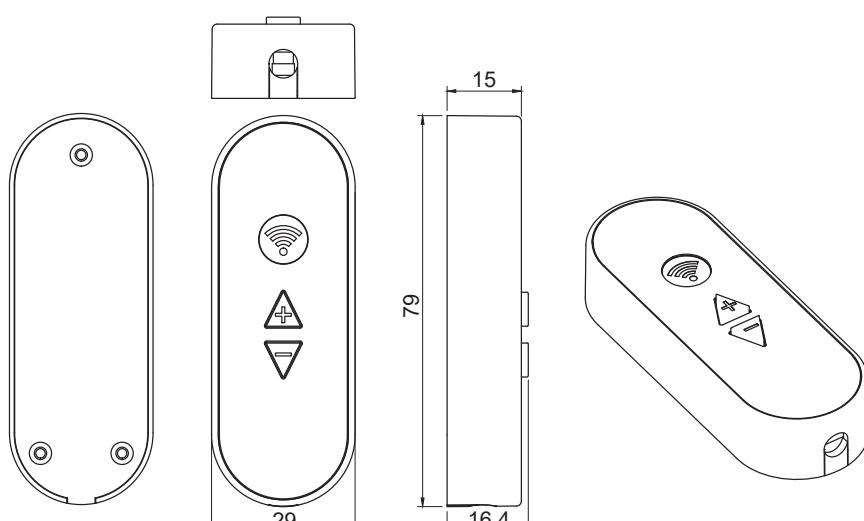
Full scheduling, dimming, and remote control available with separate GrowFlux Access Point



The GrowFlux OEM Module enables intelligent horticultural lighting control systems and individual fixture control with GrowFlux's wireless meshing technology, speeding time to market for lighting manufacturers. Featuring a user friendly design with manual pushbuttons, real time and schedule based control, an ecosystem of supporting cloud and hardware products, and a user experience designed for horticulture.

- **Eliminate relays, timers, AC switches, and control panels**

- 10V PWM control; connects directly to a range of LED power supplies
- Single and dual channel versions for tunable lighting
- Control platform maps dimming range to PPF PAR light output with a horticulture specific control interface
- Unlimited software based zoning
- Stores schedule internally; also capable of real time control
- Optional wireless control takes seconds to set up with GrowFlux Access Point



ALL DIMENSIONS MM



Installation requires 3 screws; wires terminate to Lite Trap style wire to board connector.

Internal cable clamp mechanism secures cable 5-6mm diameter.

## General Specifications

Dimensions:	80mm x 29mm x 18mm maximum
Weight:	75g maximum
Ingress protection:	IP5x - limited dust ingress permitted
Operating temperature range:	-40 to 65°C (-40 to 149°F)

## Electrical Specifications

Voltage input:	11.3 - 14.0 VDC
Absolute maximum voltage input:	18 VDC
Input voltage ripple:	+/- 100mV
Current consumption:	75mA max current draw at 12.0 VDC
PWM voltage:	10V fixed
PWM frequency:	5KHz
Absolute max voltage on PWM pin	18 VDC

## Mechanical Specifications

Cable diameter range:	Cable clamp feature is designed to secure cables ranging from 5-6mm diameter
Enclosure material:	Silicone buttons, PET overlay with hardcoat, PC-ASA resin enclosure
Mounting methods:	Adhesive, adhesive tapes and adhesive fasteners (3M VHB, etc.)

## Wireless Specifications

Wireless protocol:	GrowFlux Mesh - Sub GHz wireless mesh built on IEEE 802.15.4
Security:	RF data is AES128 encrypted; application layer is TLS encrypted. No inbound connections
Wireless frequency:	902-928MHz (US & Canada Market)
Wireless range:	500 feet line of sight peak range; 200-500 feet general line of sight range*
Meshing:	Meshes to nearest devices; smart range extension & self healing mesh
Channels:	50 channels; automatic channel hopping

## Compliance

Restricted uses:	Not for use in military, weapons, or aviation applications. Not for use in medical applications.
Intended use:	Designed for use on portable luminaires compliant to UL1598 standards. Designed to control one luminaire. Not intended for installation by end user.
FCC / IC	Complies with part 15 of the FCC Rules; certified for use in North America

**Note:**

1. Range is dependent on RF environment in which wireless device is deployed and may vary. Antenna is designed for use with module mounted on metal equipment. Wireless range in certain directions (through metal enclosure, etc) may be significantly limited compared to general range in other directions. Wireless range with line of sight to unobstructed plastic enclosure is generally around 200-500 feet on average. Nearby wireless meshed devices will extend wireless range of entire mesh.

## ORDERING INFORMATION

### Typical Part Number

GFX - OEMHLG - D01 - NA

1      2      3

1 - Series Name

OEMHLG - GrowFlux OEM Module for Horticulture Lighting Group

2 - Model

D01 - Diablo V01, 1 channel

S01 - Scorpion V01, 1 channel

Additional model numbers are available for power, spectrum variations, etc.

3 - Region

NA - ISM 902-928 MHZ band: US, Canada; ITU Region 2, (FCC, IC Compliant)