www.lightfarm.wieson.com

LIGHT FARM

LED lighting solution in Agriculture

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Light Farm

light farm

About Light Farm

In 2014, WIESON Group combined the top optoelectronic technology and agricultural technology team in Taiwan to dedicate to the PLANT FACTORY industry, and devoted to build a new brand (Light Farm Eco-Technology) intelligent eco business. Light Farm has developed the HOME and ONE primary products based on our technological expertise, so as to make a personal hydroponic garden for the consumers, and provide customized LED grow lights and environmental control modules for restaurants, builders and farms. We would like to contribute our efforts in the green world.

Platform

C2B PLATFORM
APP FOR AGRI
IOT INTEGRATE

Accessory Module

LED GROW LIGHT
ENVIRONMENTAL CONTROL SYSTEM
DESIGN & MANUFACTURE

light farm

Project

PERSONAL HYDROPONIC GARDEN
PLANT FACTORY
DESIGN & MANUFACTURE

Agriculture

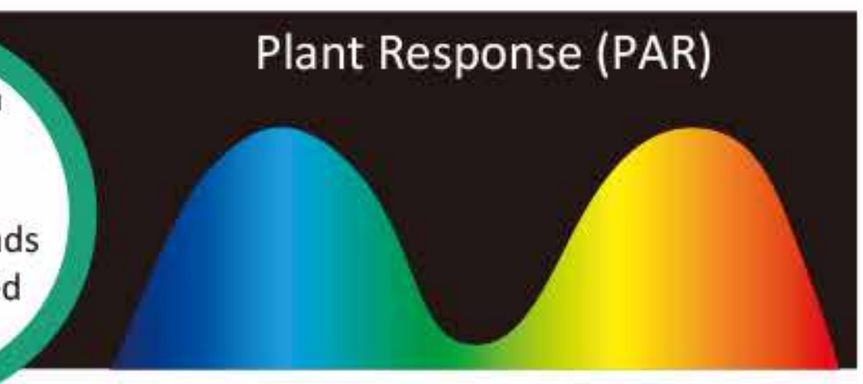
GARDEN KITS, NUTRIENT & SEEDS IN RETAIL.

LED grow light concept

The sun light has one of important element on earth.

Almost plants need to perform photosynthesis by light

Plant growth primarily chlorophyll absorption bands of blue and red light



Use the LED advantages to make the plant required spectrum

LED grow Application

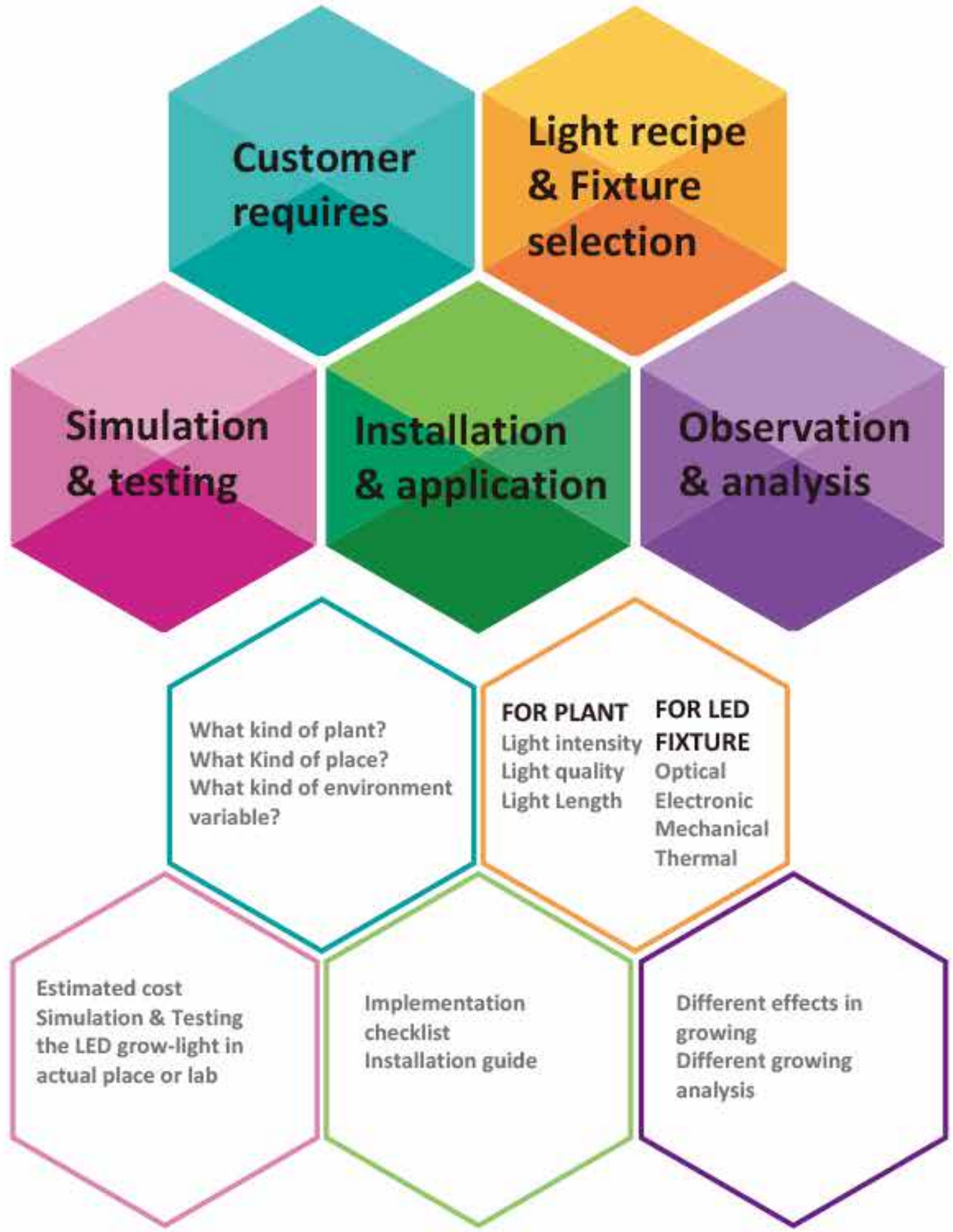
Indoor Cultivation

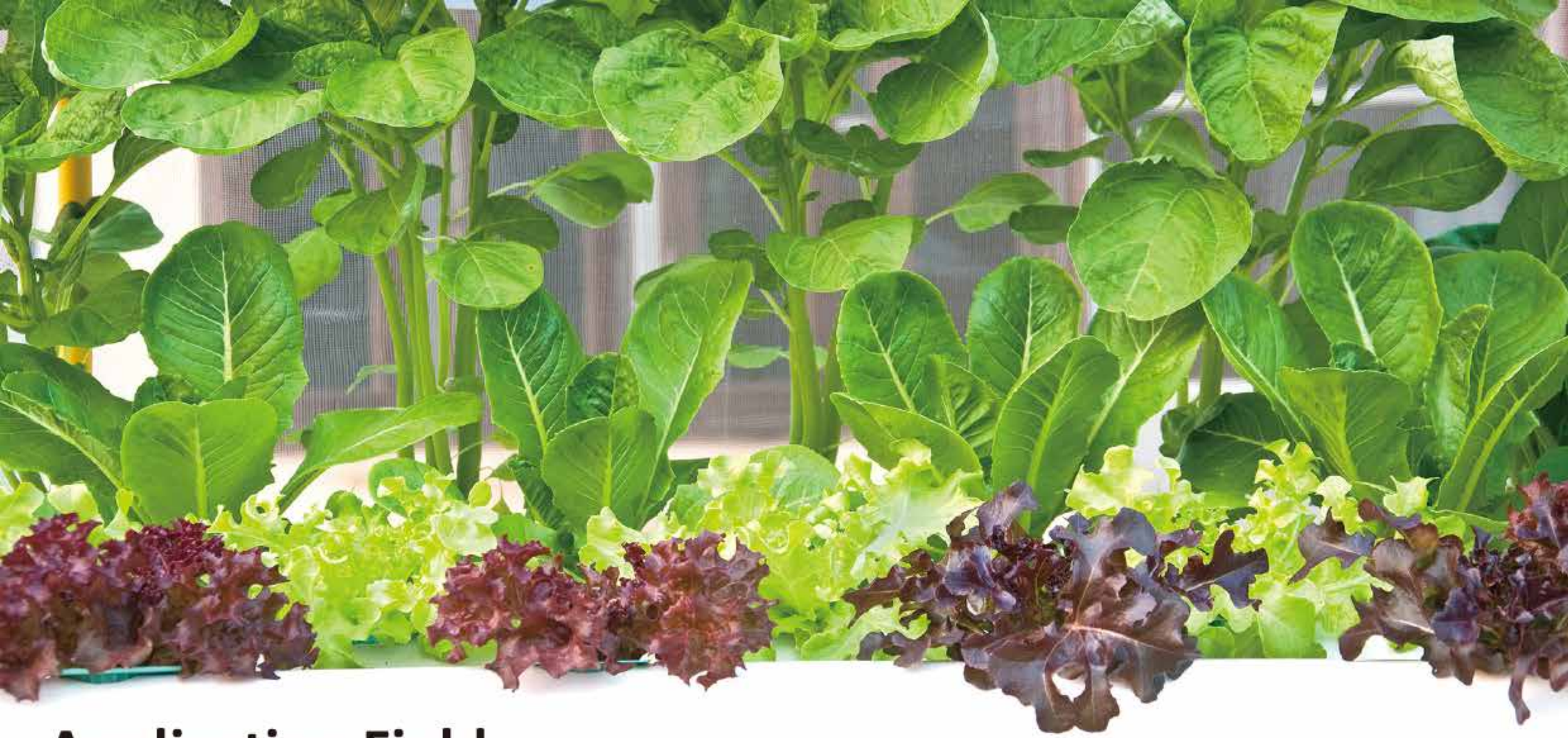
Green-house

Horticulture Engineering

City Farming

Step by step design your exclusive grow-light





Application Field

Light Series

CLOSED TYPE -

TUBELESS , PANEL

SEMI-CLOSED TYPE -

PAR , HIBAY

CLOSED TYPE TUBELESS

Efficient alternative to traditional fluorescent lamps

Available in 3 different types improve growth performance dedicated LED ratio

Operating life , 30000 hours ,@ Ta=25

Integrated LED driver , 100-240 Vac , 50/60Hz input

3 Easy steps to install

CLOSED TYPE PANEL

Provide different dimension types according your planting area

Available in 3 different types improve growth performance dedicated LED ratio

Operating life , 30000 hours ,@ Ta=25

Integrated LED driver , 100-240 Vac , 50/60Hz input

Slim design & Low radiative heat can be closer to the plants improving space utilization.

SEMI-CLOSED TYPE
PAR

Compared to traditional incandescent lamps saves up to 60% on energy costs

Available in 3 different types improve growth performance dedicated LED ratio

Operating life , 30000 hours ,@ Ta=25

Integrated LED driver , 100-240 Vac , 50/60Hz input

Easy replace & install

SEMI-CLOSED TYPE
HIBAY

Rugged die-cast aluminum housing

Modular design (50W~300W) , IP65 protection level

Available in 3 different types improve growth performance dedicated LED ratio

Operating life , 30000 hours ,@ Ta=25

Integrated LED driver , 100-240 Vac , 50/60Hz input

Hydroponic Garden

HOME Series

HOME M3

ONE Series

ONE001、ONE002

HYDROPONIC GARDEN HOME

MODEL	HB-001M3 (ONE FUNCTION KEY)
CAPACITY	6.1 L
QUANTITY	14 PCS
LIGHT SOURCE	LED
SEEDS	Garden kits (7 units) *2
NUTRIENTS	Light Farm Nutrients C+D
AC INPUT	100-240 VAC ADAPTER, DC 12V / 5A
TOTAL POWER	35 Watts
DIMENSIONS (mm)	(W)417 x (D)316 x (H)446

INDOOR GARDENING

LED GROW LIGHT

CLEANING & SAFELTY

ENERGY EFFICIENT

HYDROPONIC GARDEN ONE

INDOOR GARDENING

LED GROW LIGHT

FUN & HEALTHY

MODEL	YL-001V2	YL-002V2
CAPACITY	350ML	400ML
QUANTITY	1 PCS	1 PCS
LIGHT SOURCE	LED	LED
SEEDS	Garden Kits (3 units)	Garden Kits (3 units)
NUTRIENTS	Light Farm Nutrients	Light Farm Nutrients
AC INPUT	100-240VAC ADAPTER, DC 5V /1A	100-240VAC ADAPTER, DC 5V /1A
TOTAL POWER	2.5 Watts	2.5 Watts
DIMENSIONS (mm)	(W)178 x (D)120 x (H)322	(W)82 x (D)92 x (H)288

Control Box

CB210 Datasheet

CB310 Datasheet

Control Box

CB210 Datasheet

Model Number	Connectivity
CB210-1	Wi-Fi Module On board
CB210-2	Wi-Fi USB dongle
CB210-3	RS485

Applications

Area: Indoor

Purpose: Lighting

Dimming Control

Features

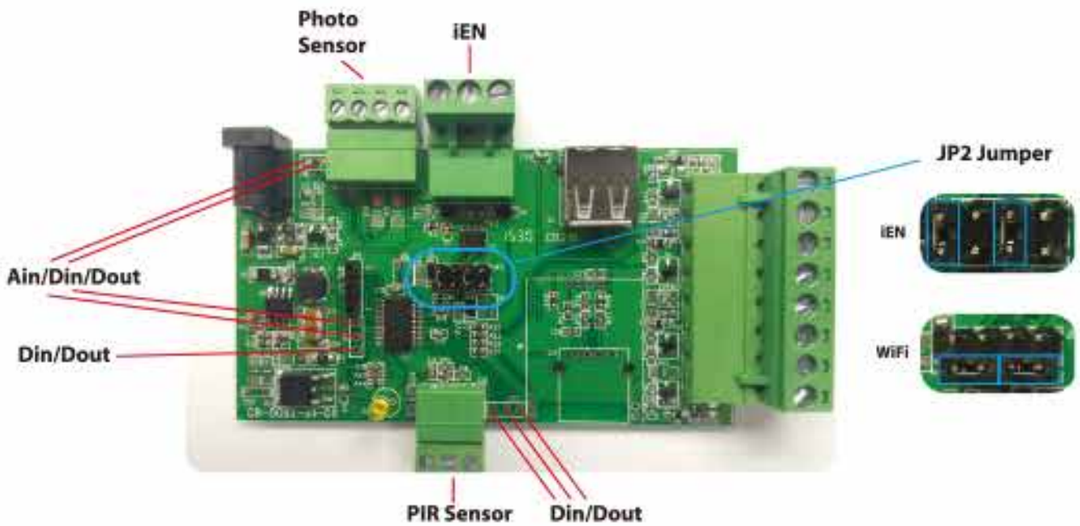
4 CH PWM output

2 CH CCT dimming(Programmable)

1 CH RGBW dimming(Programmable)

Max. 5 set Lighting Fixture by each CH

Selectable Input for RS485 or Wi-Fi (UART)



Specifications:

Item	Specification	Details
Physical	Dimension	112(L)x59(W)x20(D) mm
	Weight	80g
	Housing	ABS
Electrical	Input Voltage	12VDC
	Power Consumption	2.5 W
Output	Number of output channel	4
	Output Signal	PWM , 1KHz , 10V
	Dimming Range	10 ~ 100%
Temperature Range	Storage Temperature	-40˚C~80˚C
	Operation Temperature	-20˚C~40˚C
PIR Sensor	Detection Range	Ceiling : 5m@2.4m
Photo Sensor	Measurements	0.01 lux ~ 83k lux

Control Box

CB310 Datasheet

Model Number	Connectivity
CB310-1	Wi-Fi Module On board
CB310-2	Wi-Fi USB dongle
CB310-3	RS485

Applications

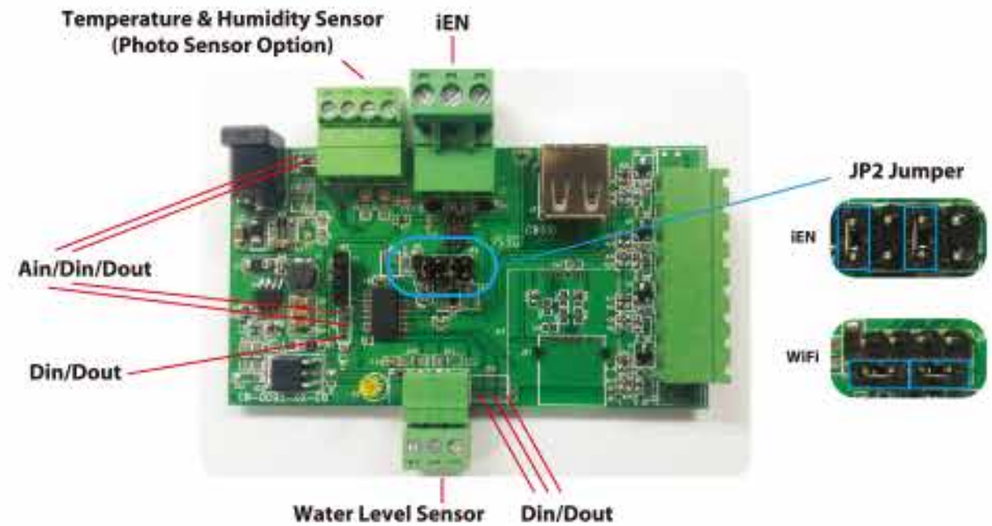
Area: Indoor

Purpose: Relay Control

Features

4 CH Relay output

Selectable Input for RS485 or Wi-Fi (UART)



Specifications:

Item	Specification	Details
Physical	Dimension	111(L)x56(W)x20(D) mm
	Weight	80g
	Housing	ABS
Electrical	Input Voltage	12VDC
	Power Consumption	2.5 W
Output	Number of output channel	4
	Relay Output	12V,10mA
Temperature Range	Storage Temperature	-40˚C~80˚C
	Operation Temperature	-20˚C~40˚C
Temperature Humidity Sensor	Temperature Detection Range	-20˚C~85˚C
	Relative Humidity Range	0%~100%
Photo Sensor	Measurements	0.01 lux ~ 83k lux