

INTELLIGENT CONTROL SYSTEM

Plant Field Intelligent Control System and Specifications

Overview: The Plant Field control system is simple plant lighting control technology based on RS485 bus communication protocol for plant factories. The system is composed of a main controller and a RS485 transfer board. It is equipped with a device our company developed to detect the parameters of the environment such as illumination, temperature, and humidity and provides data support throughout the plant growth process. The switch and dimming control are monitored by the RS485 transfer board. The system also has a built-in Bluetooth function that supports short-distance wireless control.



SPECIFICATION

ELECTRICAL PARAMETERS	POWERED BY	DC 5V-12V≤ 0.5A @ DC 12V	
	WORKING CURRENT	ISM frequency band 2.4–2.5GHz	
	WIRELESS FREQUENCY	ISM frequency band 2.4–2.5GHz	
	INDOOR COMMUNICA- TION DISTANCE	164ft (50m)	
	WIRELESS TRANSMIT POWER	+4dBm (Maximum)	
	RECEIVING SENSITIVITY	-93dBm @ 1Mbps	
	NETWORK TOPOLOGY	Rs485 bus protocol to achieve networking	
	POWER	DC-005 power socket	Power DC inet
INTERFACE DEFINITION	PJ-313*2	Audio port	For connection of themometer
	RJ11*2	Rs485 communication interface	Hygrometer 485 connection for controller
	KF141*2	Spring type terminal	For controller and adapter board for ecternal control
STRUCTURAL PARAMETERS	SIZE	L8.1 Inches X W5.3 Inches X H1.7 Inches (205mm X 135mm X 45mm)	
	STORAGE TEMP.	-13 °F–158 °F (-25 °C–70 °C)	
OTHER	RELATIVE HUMIDITY	< 95 % (No condensation)	
	OPERATING TEMP.	-40 °F-185 °F (-40 °C-85 °C)	

All specifications are subject to change. All spec values are typical.

MODEL ORDERING GUIDE

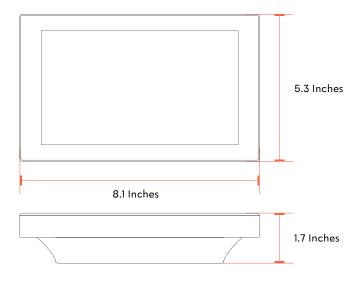
SERIES CODE	DUAL OUTPUT
CHF07= Grow Light Control Panel	0–10V/1–10V



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DIMENSIONS







THERMOMETER

The thermometer and hygrometer use standard audio line interfaces for power supply and data output. They provide real-time temperature and humidity data for the main controller of the environment.

WARNING

- The installation should be performed by qualified electricians or technicians.
- 2. Before conducting any installation, maintenance, or removal, the luminaires should be powered off and cooled down.
- 3. Do not touch the fixture while it is turned on.
- 4. If there are any issues with the fixture, do not power off and attempt to repair it unless you are a qualified technician, electrician, or customer service member.

WARRANTY

INTELLICENT CONTROL SYSTEM product is covered by a $\bf 5$ year limited warranty. CALIVE grow light warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 5 years from date of purchase. To obtain warranty service please contact your local distributor or sales rep for further instruction.

CALIVE LLC reserves the right to update all product data sheets at any time. Consult CALIVE marketing specialists for publication updates at hello@calivellc.com

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ELECTRICAL PARAMETERS	POWERED SUPPLY	DC 3.3V±0.2V	
	WORKING CURRENT	≤ 10 mA	
INTERFACE DEFINITION	PJ-313	Temperature and humidity power input temperature and humidity data output	DC 3.3V input temperature and humidity data output
STRUCTURAL PARAMETERS	SIZE	O.2 Inches X O.4 Inches X O.2 Inches (5mm X 9mm X 4mm)	Output
ОТНЕК	OPERATING TEMP.	-13 °F-158 °F (-25 °C-70 °C)	
	STORAGE TEMP.	-40 °F-185 °F (-40 °C-85 °C)	
	RELATIVE HUMIDITY	<95% (no condensation)	