



A-OK[®]

AI Motors Specialist

BIOCLIMATIC PERGOLA CONTROL BOX

Motorized Pergola
Smart Control | Ultimate Comfort

PRODUCT CHARACTERISTICS

CONNECTIVITY MOTORIZATION CENTRALIZATION

RGB LED LIGHT

WHITE LED light

24V RS485 linear motor

2*24V linear motor

Wind&sun sensor

RF & temperature sensor antenna

CLIMATIC EVENTS

5 Specific Events Managed: Sun / Rain / Freeze / Wind / Snow



In case of sun : The Louver goes to its default position(Default=50 % opened)



In case of wind : The Louver goes to its default position(Default=0 % opened)



In case of rain : The Louver goes to its default position(Default=0 % opened)

Sensing the rain, the louvers gently return to position, even in your absence, your home is meticulously cared for, with effortless grace.

A unique rain-proof mechanism : Upon opening the louvers automatically preset to a 45° angle, cleverly guiding rainwater to flow along the edges, without disturbing your moment of tranquility, after opening to 45°, a 10 minutes interval is required before allowing the Louver to be adjusted to any angle.



In case of freeze : The Louver goes to its default position(Default=10 % opened)

Rain detected and temperature is below the threshold (default: 5°C)

Freeze-Rain Mode: When the temperature drops below 5°C and rain is detected, the system will automatically close and then slightly readjust the blades to a safe, ice-prevention angle.



In case of snow : The Louver goes to its default position(Default=90 % opened)

Anti-Snow Load Mode: Automatically adjusts the Louvers to a specific angle when temperatures drop below 5°C and snow is detected, effectively redistributing snow load to prevent overloading

THE DIFFERENT

WAY OF END LIMIT SETTINGS ARE AVAILABLE

- Automatically end limit setting
- Semi-automatically end limit setting
- Manual end limit setting

* Depending Of An Automatic Detection Of The Characteristics Of The Motors.

ACTUATOR

MOTOR'S COMPATIBILITY

- 2*24V Tilt motor output (Synchronisation or independent)
- 1*24V RS485 Tilt motor output

Synchronisation : Simultaneous Start/Stop Of Two Motors, With Position Monitoring To Prevent Deviation

PRODUCT PARAMETERS

Model	AC297-01
Input voltage	200~240VAC 50HZ
Color	Black
Control mode	RF remote control(868MHz) Wired wind-sun-rain sensor Wireless wind-sun-rain sensor

RF receiving frequency/ Wireless wind-sun-rain sensor frequency	868MHz
RF receiving sensitivity	>-110dBm
RF receiving distance	The open space should be no less than 60 meters
AC load power	≤2000W(for a single heater) with no time limit

Output of DC motor	24VDC/MAX60W
Light strip output	Single light strip : 24VDC/50W*3, with no time limit
Working temperature	-20°C~ +60°C
Waterproof level	IP65

EFFORTLESS OUTDOOR LIVING

SEAMLESS INTEGRATION

At the heart of modern living, our smart home solutions seamlessly connect devices, ensuring convenience, efficiency, and control at your fingertips. With advanced connectivity and automation, we transform spaces into intelligent environments

ENTERTAINMENT SCENES

Pre-configured settings streamline your daily routines of your bioclimatic pergola. Activate customized scenarios with a single click, timer, sensor, or voice command to seamlessly control multiple smart devices simultaneously—effortlessly creating the perfect evening ambiance through innovative lighting solutions.

DESIGNED FOR ENERGY EFFICIENCY

Equipped with multiple sensors, the pergola operates autonomously: the slats close automatically during bad weather, and reopen to welcome the sunlight once it returns. Closing the slats helps cool the house and reduces air conditioning costs in summer, while in winter, adjusting the slat angle lets sunlight in, maximizing the warmth of the sun's rays.

FAMILY SHARING

Share the smart devices with family members for added convenience. Control multiple devices with one phone or share control of one device across multiple phones.

A wonderful experience

MULTIPLE CONTROL METHODS

APP & VOICE CONTROL

A-OK self-developed app based on smart technology ensures seamless comfort for everyone.

using your voice to control your smart home.

TOUCH CONTROL

Multiple touch controls options including wall switches, remotes controls and touch panels offering flexible daily convenience.

motorize your shades with a click of a button using transmitter and motor.

WEATHER/SENSORS

Smart devices to detect wind and sun intensity, automatically open or close shades according to the weather conditions.

TIMER SETTINGS

Open or close shades automatically at the pre-set times, based on your comfortable needs.

Voice Control



Remote Control



APP Control



Louver Control

- Open/Close
- Slat Angle Adjustment
- Precise Percentage Control

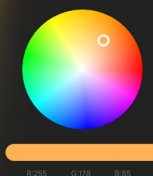
Heater Control

- Turn on/turn off

Sensors

- Active or disactive

LED light



LED control

- Turn on/turn off
- Color Mode Switching for Decorative Lights (white, red, green, blue, cyan, purple, yellow), default color is white
- Manually Brightness Adjustment
- Automatic Brightness Adjustment





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