CDY-14B Evaporation Sensor
For weather automation applications

Features

- Environmental monitoring
- Greenhouse control system
- Whole stainless steel material
- Stable performance, good linearity
- Livestock farm
- Intelligent building control system
- A variety of signal output
- Low power consumption: Using advanced electronic technology, low power consumption, suitable for long-term operation
- Easy installation

The product uses the high-precision weighing principle to measure the liquid weight in the evaporation pan, and calculates the liquid level of evaporation loss by measuring the difference of the liquid weight before and after the measurement. The evaporating dish is made with high-quality stainless steel , which has good anticorrosive and anti erosion characteristics. It ensures the measurement accuracy and can be used in conjunction with the automatic weather station or professional evaporation recorder.

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Typical installation locations

- Top of building
- Solar energy
- Open areas
- Outdoor locations

Design structure

Weighing evaporation sensors determine evaporation by measuring the change in the weight of the water container. The water in the container is gradually reduced as it evaporates, and the sensor monitors the weight of the container in real time to calculate the amount of evaporation.
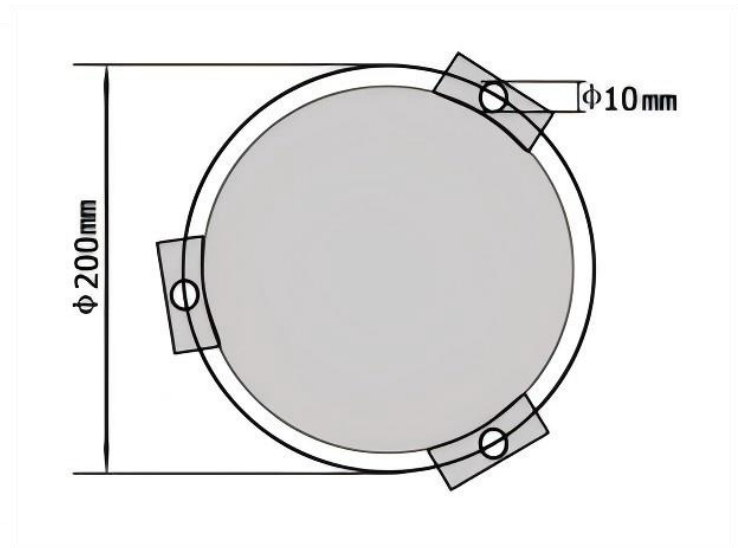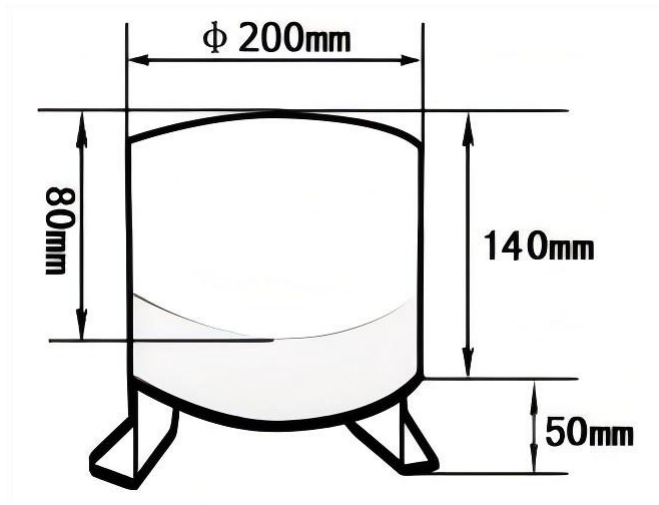
Easy installation

Install in a location that is representative of the evaporation of the surrounding environment. Generally, it should be selected in an open, unobstructed, well-ventilated place and avoid installation near buildings, trees or other obstacles. Consider the stability and safety of the installation position to ensure that the sensor will not be damaged by external forces.

Reliable operation

High-quality materials and superb manufacturing processes are the basis for ensuring sensor reliability. The use of corrosion-resistant, high-strength materials to make the housing and load-bearing parts of the sensor can extend the service life of the sensor and improve its stability in a variety of harsh environments.

Dimensions & packing

CDY-14B connector dimension

Φ 200mm
80mm
140mm
50mm

Φ 200mm
Φ10mm

Installing

Mounting bracket (if required) :
Select the appropriate mounting bracket according to the characteristics of the installation position.
Install the bracket firmly in the selected position using screws or other fastening methods.

Install sensors:
Fix the evaporation sensor on the mounting bracket to ensure that it is firmly installed without loosening or shaking.
According to the type and installation requirements of the sensor, the direction and Angle of the sensor are adjusted so that it can accurately measure the evaporation amount.

Connecting cable:
Connect the cable of the sensor to the corresponding monitoring device or control system.
Ensure that the cable is securely connected and not loose or in poor contact.
Pay attention to the direction and protection of cables to avoid cable damage or interference.

Technical data

Measurement performance, models C D Y - 1 4 B

Item	Specification
Evaporation pan	Diameter :φ200mm
Range	0-75mm
Response time	<1s
Accuracy	±1%
Power Supply	5V,12-24V
Output	4-20mA,0-2V,0-5V,RS485
Operating temperature	-30-+80℃
Ingress protection	IP65
Main material	304SS
Weight(unpacked)	2.5kg

Model number	Type	Output	Special features
CDF-10A	Wind speed	Pulses(PNP) RS485 4-20MA 0-5V	Three cup plastic wind speed
CDF-11A	Wind direction	RS485 4-20MA 0-5V	Plastic wind direction sensor
CDF-20B	Combined Wind Speed & Direction	RS485 4-20MA 0-5V 0-10V	Integrated wind speed and direction
CDG-10B	Solar Radiation	0-5V,4-20mA,RS485	Spectral range:300～1100nm
CDG-13B	Ultraviolet(UV) Radiation	0-5V 0-10V 4-20mA RS485	Spectral range:280～400nm
CDW-33A	Atmospheric Temperature,Humidity & Pressure	RS485	Shelter installation
CDY-10B	Metal Economical Tipping Bucket Rainfall	Pulses(@10kΩ&0.01uF),RS485	Diameter :φ200mm, height: 330mm
CDY-11A	Rain & Snow Sensor	Relay(NO) RS485	Gold-plated(Strong corrosion resistance)
CDY-12A	Economical Tipping Bucket Rainfall	Pulses(@10kΩ&0.01uF),RS485	Diameter :φ200mm, height: 271mm
CDY-14B	Evaporation sensor	RS485	Range 75mm
CDY-15A	Optical Rain Sensor	Pulses(@10kΩ&0.01uF),RS485(12VDC supply)	Diameter :φ82mm, height: 80mm
CDQ-X100	Piezoelectric Type Rain	RS485	Measuring range: 0-200mm/h
CDY-18B	Automatic rainfall station	4G/WIFI/Ethernet	LCD display

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