



CDQ-T3C Automatic Integrated weather station

For weather automation applications



Features

- No moving parts, no maintenance, can work in any altitude
- Strong corrosion resistant ability
- High sensitivity
- Low power consumption
- Light weight, long service life
- High-strength structural design
- Easy to install, all-weather measurement
- Strong resistance to harsh environment

CDQ-T3C The small automatic weather station is a kind of civilian integrated weather station independently developed by our company, which can measure multiple meteorological parameters. It can simultaneously measure various meteorological elements such as atmospheric temperature, atmospheric humidity, wind speed, wind direction, air pressure, rainfall, radiation, illumination, UV radiation, visibility, PM2.5 and PM10.

Typical installation locations

- Environmental monitoring
- Sea-going vessel
- Bridge & Tunnel
- Solar and wind power generation

Design structure

Common transmission methods include wired transmission (such as RS232, RS485, Ethernet, etc.) and wireless transmission (such as GPRS, WiFi, Bluetooth, LoRa, etc.). Data can be transferred to a local monitoring terminal (such as a computer, display screen, etc.) for real-time display and storage, and can also be transferred to a remote server or cloud platform for users to remotely access and analyze through the Internet.

Easy installation

Stay away from buildings, trees and other obstacles to ensure that the weather station can accurately measure wind direction and speed.

Avoid installation in low-lying areas to prevent water from affecting the normal operation of the weather station.

Choose a flat, stable surface to ensure that the weather station is securely installed

Reliable operation

The communication protocols of weather stations usually adopt international standards or industry standards, such as Modbus, TCP/IP, etc., which has high reliability and compatibility. The reliability of the communication protocol can ensure the accurate transmission and reception of meteorological data, and avoid data loss and error

Technical data

Measurement performance, models CDQ -T3 C

Item	Range	Resolution	Accuracy
Wind speed	0-70m/s	0.1m/s	±3%
Wind Direction	0-359°	1°	±3°
Temperature	-40-80℃	0.1℃	±0.5℃
Humidity	0-100%	0.1%	±3%
Barometric pressure	300-1100hpa	1hpa	±1
Rainfall	0-200mm/h	0.01mm	±8%(Wind speed ≤5m/s)
Altitude	-500m-900m	1m	±5%
Radiation	0-2000W/m3	0.1W/m2	±5%
Illuminance	0-200000LUX	0.1LUX	±5%
PM2.5 PM10	0-2000ug/m3	PM2.5 :0.1 PM10: 1	±5%
Visibility	20-10000M	1m	±15%
Noise	30-110dB	1dB	±3%
Supply	7-24V DC adapter (included) 0.7W(MAX)		
Output	RS232 RS485 SDI-12		
Communication protocol	Modbus-Rtu NMEA-0183 ASCII		
Level of protection	IP65		
Size / weight	Diameter:110mm*(217-298) / 0.38Kg		
Material	ABA		

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
CDG-10B	Solar Radiation		0-5V,4-20mA,RS485	Spectral range:300~1100nm
CDG-11B	Pyranometer		0-20mV,RS485	Spectral range:300~3000nm Class one
CDG-12B	PAR sensor		0-5V 4-20mA RS485	Spectral range:400~700nm
CDG-13B	Ultraviolet(UV) Radiation		0-5V 0-10V 4-20mA RS485	Spectral range:280~400nm
CDG-14A	Illuminance Sensor		0-5V 0-10V 4-20mA RS485	Spectral range:380~780nm
CDG-17B	Scattering Radiometer		RS485	Spectral range:280~3000nm
CDQ-T6A	Miniature Ultrasonic Automatic Weather Instrument		RS485	Wind speed%direction Atmospheric temperature&humidity&pressure
CDQ-T0C	Automatic Weather Station		RS485 4G/WIFI/Ethernet	Wireless data transmission
CDQ-T1C	Automatic Integrated weather station		RS485 SDI-12	Multiparameter integration
CDQ-T8A	WIFI Weather Station		WIFI LCD display	7 in 1 weather station
CDQ-T9A	Plastic Weather Station		LCD display	7 in 1 weather station

