

EXPLOSION-PROOF WEATHER STATION



Product Overview

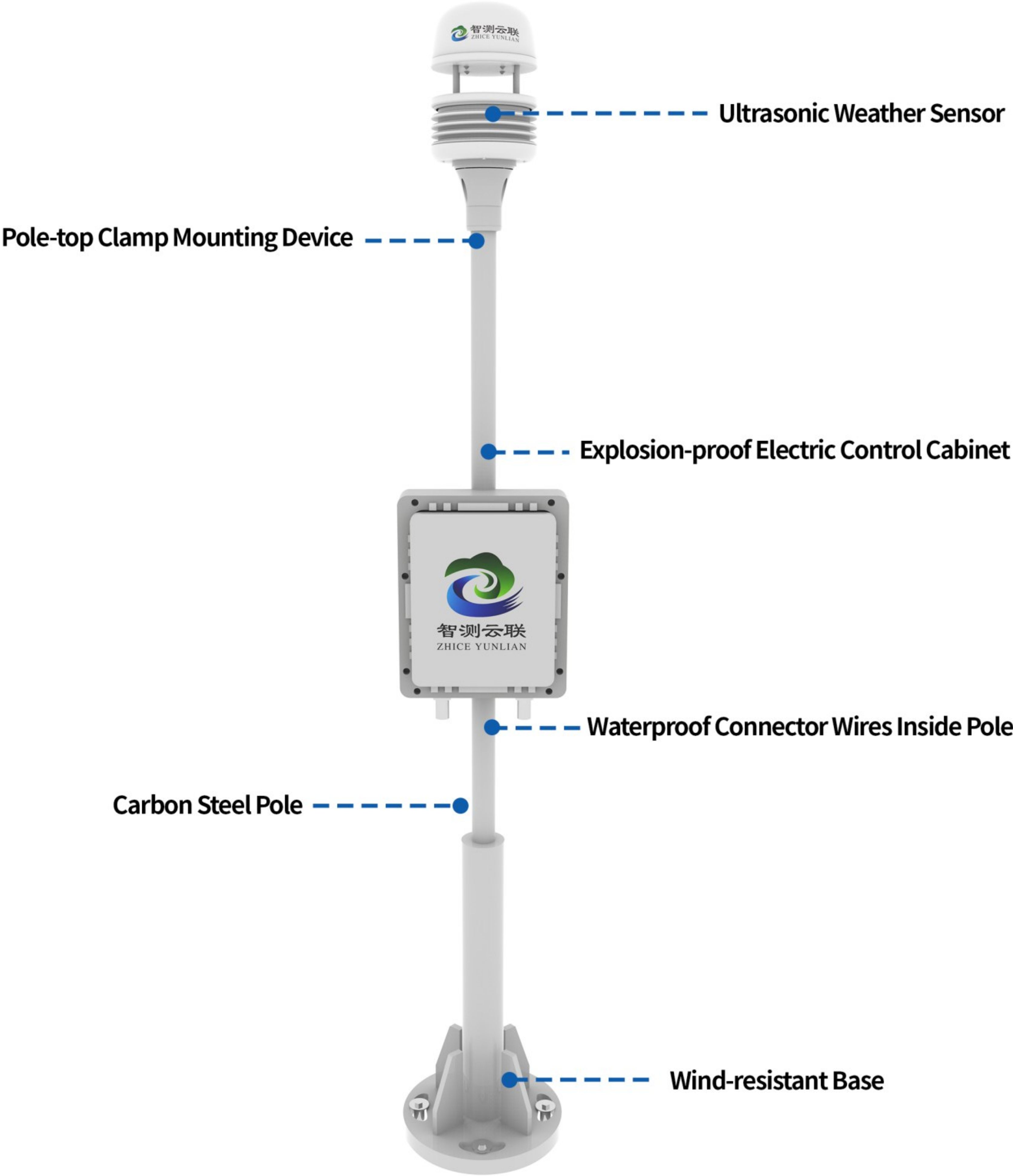
Zhice Yunlian EXPLOSION-PROOF WEATHER STATION is an integrated environmental monitoring product developed based on market demands, designed to meet the explosion-proof requirements of environmental monitoring equipment in special sites such as chemical plants and oil depots.

It integrates data collection, storage and data upload functions. It connects with the background upper computer management software or cloud platform via wired or wireless communication for data processing and analysis.

This product adopts a high-protection design with corrosion resistance, explosion protection, waterproof, shock resistance and dust resistance, suitable for various harsh special environments. It is the preferred solution for chemical plants, oil depots, tunnels, mines and other fields.



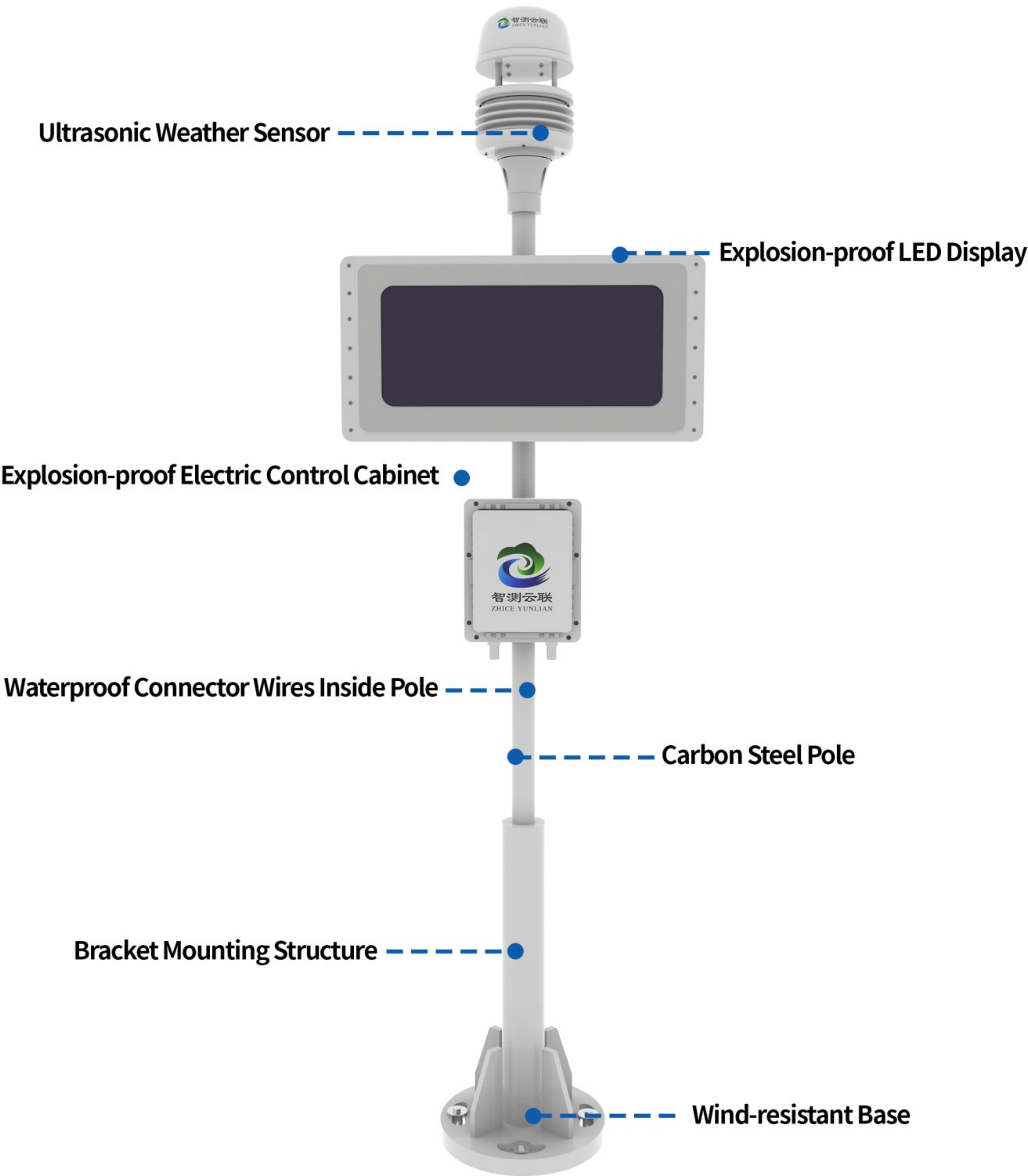
 Type A





 TYPE B

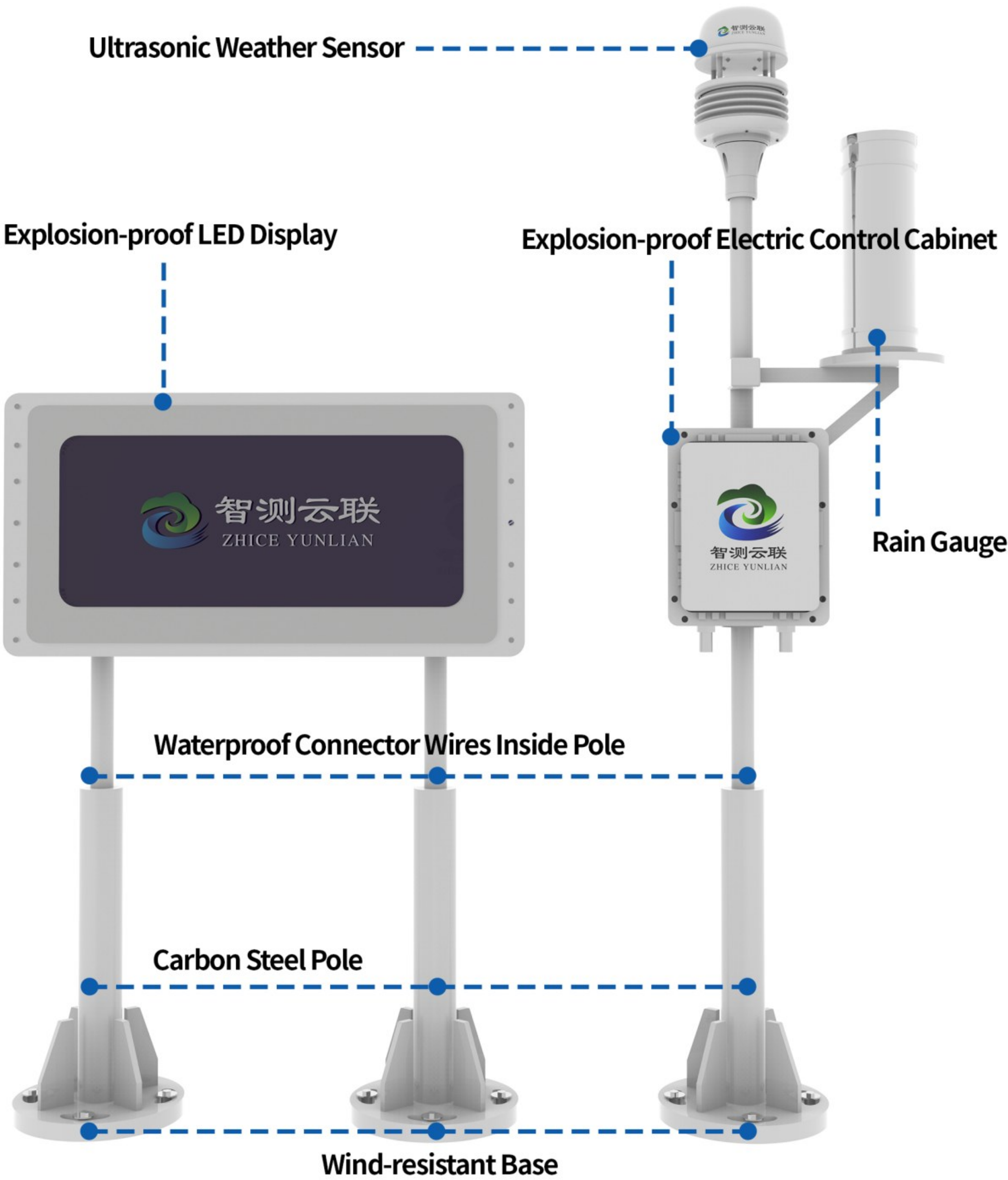
INTEGRATED DISPLAY





 TYPE C

LINKED



Installation Scenario Description

TYPE A



Mini Program



PC platform

RS485/4G

WIFI/LORA

数据传输

Can be remotely deployed at any monitoring point

TYPE B

Temperature: 23.8°C
Humidity: 93%
Atmospheric Pressure: 1004.8
Wind Speed: 7.8 m/s
Radiation: 88
PM2.5: 23 $\mu\text{g}/\text{m}^3$, PM10: 48 $\mu\text{g}/\text{m}^3$
Noise: 50

No external equipment required

Mini Program

PC platform

presents real-time monitoring parameters locally

3/6/12-element ultrasonic sensor

TYPE C

Designed for special monitoring points



Mini Program

PC platform

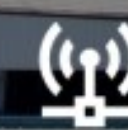
No external equipment required



RJ45



GPRS



Lora

Data

Suitable for high-position deployment



Ultrasonic Weather Station

12 Meteorological Elements

Wind speed, wind direction, temperature, humidity, air pressure, optical rainfall, PM2.5, PM10, CO, NO2, SO2, O23



Inverted Ultrasonic Transducer Design

Dust-proof and waterproof, no on-site manual maintenance required, free from rain and snow interference



Bottom Clamp Mount



Accessory

Four Installation Methods



1. Pole-clamp Crossbeam Bracket



2. Vertical Pole Adapter



3. Special Crossarm for Weather Station Pole



4. Pole-top Clamp Mount



Introduction to the upper computer software

Function Category	Specific Description
Core Functions	Realize integrated management of data reception, storage, viewing and analysis in the PC standalone environment
Data Reception and Processing	1. Support data reception via serial port, as well as data processing and visual display 2. Compatible with communication methods such as JSON string and MODBUS485
Parameter Configuration	1. Allow independent setting of data storage time 2. Support custom collection time in MODBUS485 collection mode
Monitoring Parameter Management	Support users to independently add, delete and modify monitoring parameters, including information such as parameter protocols, names and icons
Data Processing Expansion	1. Equipped with data post-processing function 2. Support external running of JAVASCRIPT scripts



Introduction to Cloud Platform

Function Category	Specific Description
Architecture & Access Method	Adopts a CS architecture software platform, supporting direct access and observation via mobile phones and PC browsers without additional software installation
Account & Device Management	Supports multi-account and multi-device login, meeting the collaborative management needs of multiple users and terminals
Data Display Function	1. Provides dashboards for real-time data display and historical data display 2. Supports data curve analysis 3. Supports map display and device information viewing
Data Storage & Stability	Implements cloud data storage based on cloud servers, featuring stability, reliability, easy scalability and load balancing
Alarm & Threshold Management	Supports SMS alarm function, allowing custom alarm threshold settings to respond to abnormal data in a timely manner
Data Processing & Output	1. Supports data export in table format 2. Has data post-processing function 3. Supports external running of JAVASCRIPT scripts to enhance customization capabilities
Data Forwarding Function	Supports data forwarding via multiple protocols, including HJ-212 protocol, TCP forwarding, HTTP protocol, etc.

