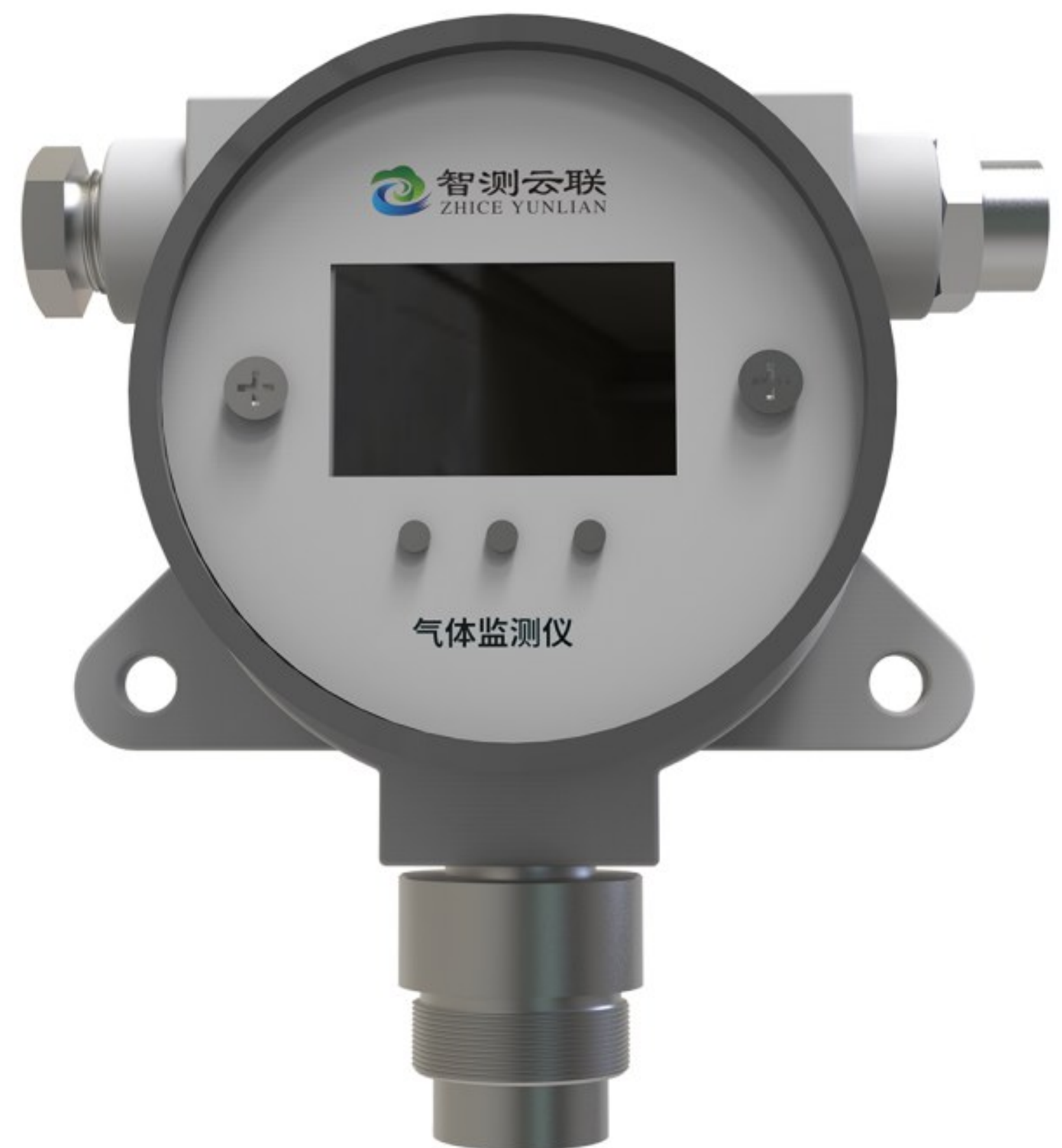


FLAMMABLE GAS MONITORING



Product Introduction

The online flammable gas monitoring device mainly detects parameters including methane, hydrogen sulfide, hydrogen and oxygen. It can also be expanded to monitor carbon monoxide, carbon dioxide and ammonia, with trace amounts of other low-concentration harmful gases as auxiliary monitoring targets. This online monitoring device is suitable for unattended continuous monitoring scenarios.

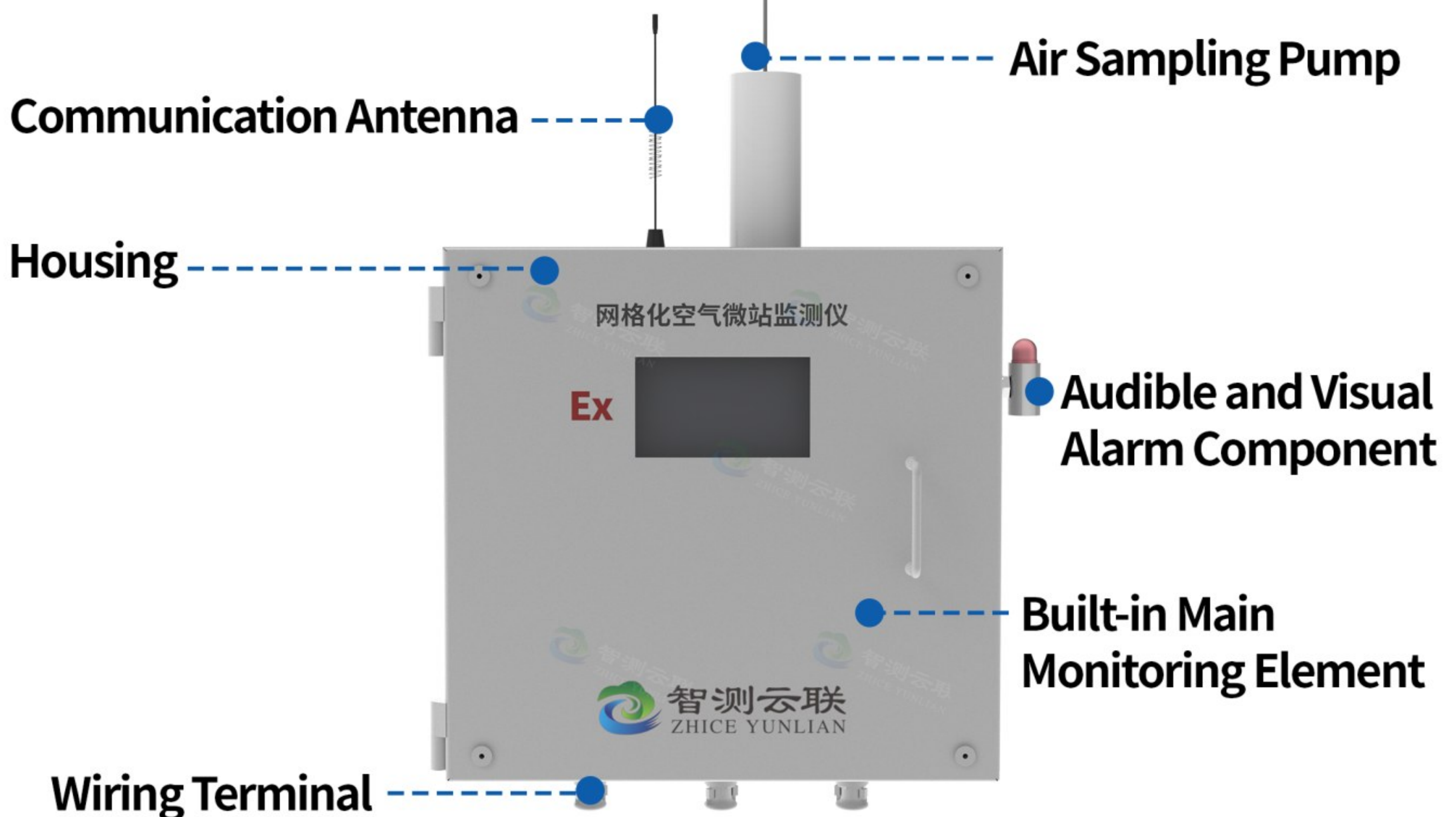
Application Scenarios

It is mainly applicable to relatively enclosed environments such as industrial parks, air-raid shelters, mining projects, and tunnels. Continuous monitoring of the application scenarios is carried out, and the collected data is uploaded to the supervision platform via 4G wireless transmission.

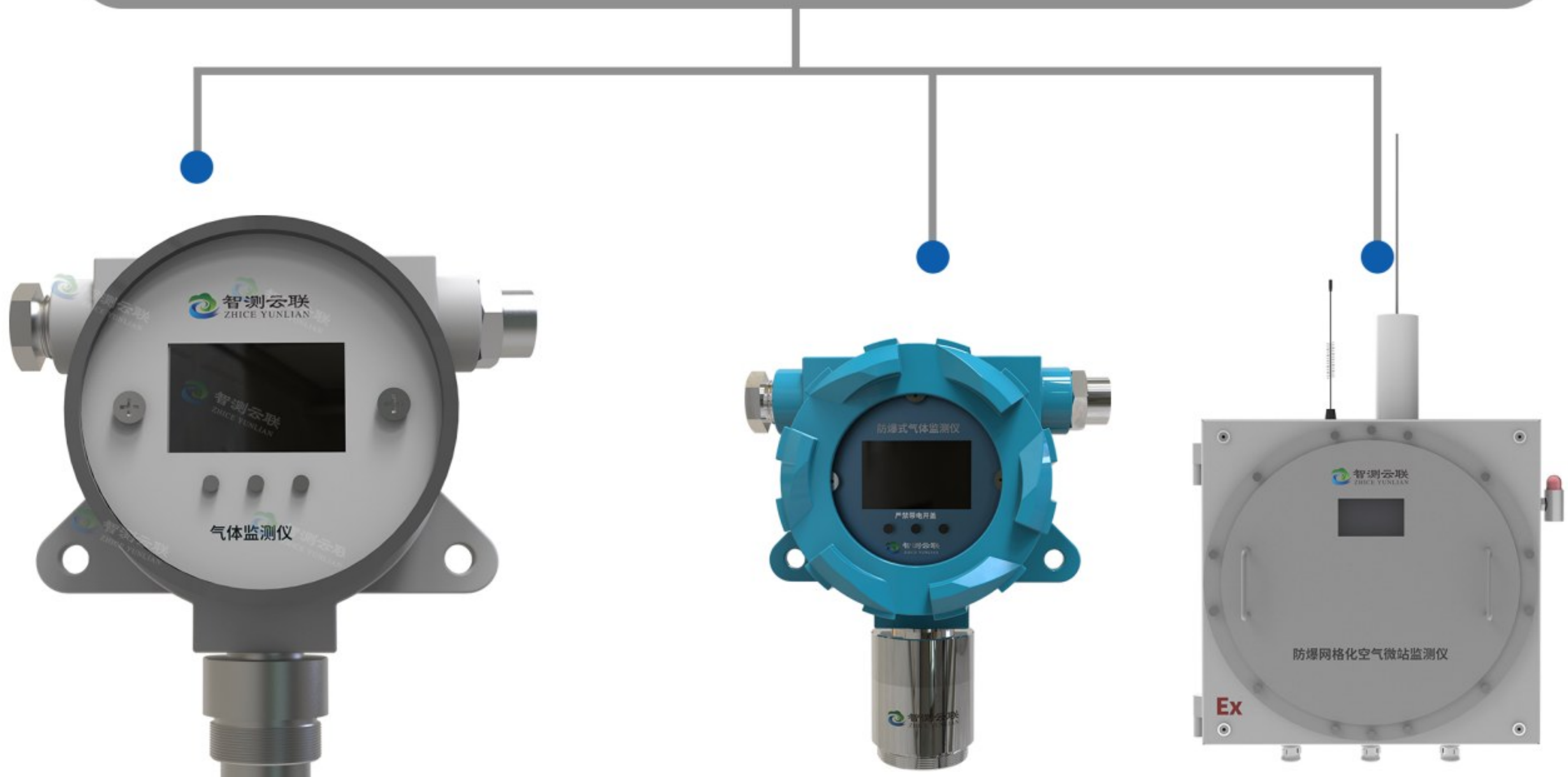
When the content of a certain gas is too low or too high, an alarm will be triggered to prompt personnel to take corresponding measures in time.

Product Structure

Monitoring function can be added optionally



Gridded Air Micro-station Monitoring System (Acquisition Host)



Gas Monitoring Sensors
(Fixed-point Monitoring)

The mainframe and sensors can all be upgraded to be anti-duplicate products.





Product Configuration

Data Acquisition and Processing Unit

The acquisition host judges, verifies and stores the received monitoring data, performs statistical analysis on the data according to requirements, and uploads the processed data to the cloud platform. It also supports local data display, realizing the integration of environmental parameters and video monitoring frames.

Gas Monitoring Unit

It consists of external sensors and a built-in gas detector inside the acquisition host. It accurately measures the concentration of main on-site gases including harmful gases, providing reliable data support for post-analysis of monitoring results.

Data Display Platform

The monitoring data can be uploaded to government data platforms at all levels, as well as the self-developed ZhiCloud platform. It can also be overlaid on on-site surveillance videos: environmental parameters are displayed in text on the video monitoring screen, realizing the fusion of local environmental data and video. The data is stored together with video footage, tamper-proof and permanently archived with timestamp overlay.

Video Monitoring Unit (Optional)

HD digital surveillance camera for real-time on-site monitoring and local storage, supporting playback at any time.

Sensor Parameter Range

Type	CO2	CO	O2	H2S	CH4	H2	NH4
Range	0-5000ppm	0-1000ppm	0-25%Vol	0-100ppm	0-100%LEL	0-1000ppm	0-100ppm
Resolution	1ppm	1ppm	0.1%Vol	0.1ppm	1%LEL	1ppm	0.1ppm
Accuracy	±3%FS	±2%FS	±0.5%Vol	±2%FS	±3%FS	±2%FS	±2%FS