

Be Excellent Be Perfect

About us

Introduction

Hunan Rika Electronic Tech Co., Ltd is located in Changsha, the national intelligent manufacturing base. We are a professional sensor manufacturer and solution provider of weather & environmental monitoring for 10+ years.

Business

Rika is committed to developing and providing cost-effective intelligent IoT environmental monitoring products and services, including: wind energy measurement, solar radiation measurement, air quality monitoring, hydrometeorological monitoring, soil moisture measurement, water quality monitoring, dataloggers and various kind of weather stations and monitoring stations. Products are widely used in meteorological and environmental monitoring fields such as photovoltaic power generation, smart agriculture, aquaculture, sewage treatment, air quality, wind power generation, and traffic monitoring.

Values

Hunan Rika Electronic Tech Co., Ltd. is pursuing to be excellent and perfect, and is committed to providing clients with accurate, high-quality and intelligent measuring instruments and solutions.

Development

We have introduced modern high-tech production lines. And after years of technology accumulation, we have established a modern R&D and production system and a complete quality control system. Now we are a state-level high-tech enterprise, with more than 20 patent authorizations, and having established close production-study-research cooperations with universities and research institutes in the industry. Our company has already obtained ISO9001, TUV Quality Management System certification, and products have passed CE, ROHS and other international certifications.



Along with the development of business and the diversification of demand, we provide clients with customized and high-quality project solutions through a full range of products and services. With timely and effective support and delivery system, we are offering OEM/ODM solutions to clients for more than 80 countries around the world, and have won wide recognition at home and abroad.

Certification



SOLUTION 1

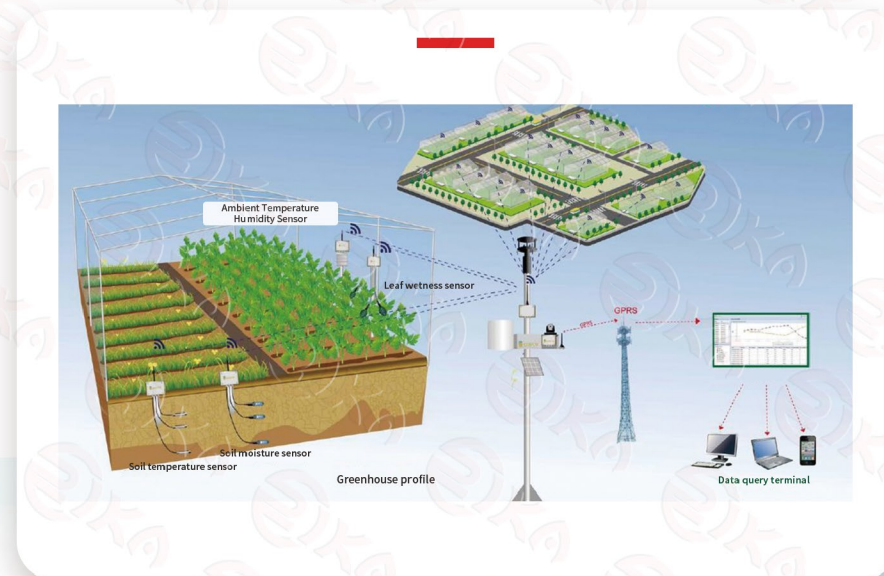
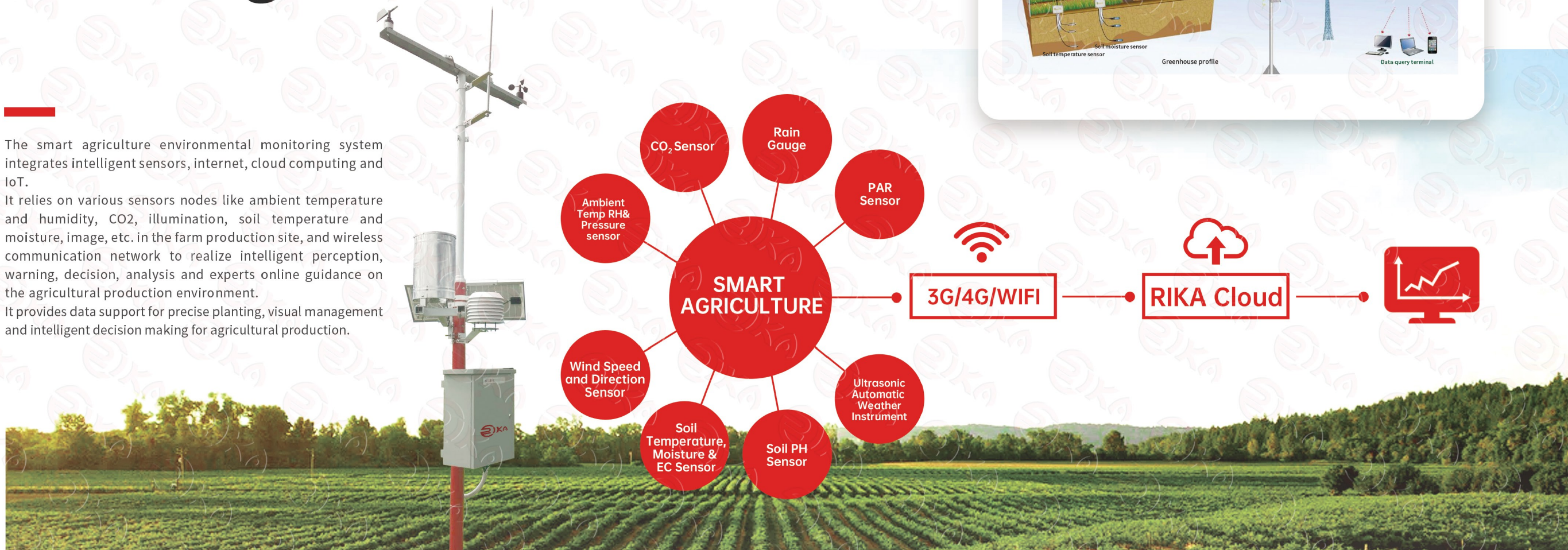
Smart Agriculture

The smart agriculture environmental monitoring system integrates intelligent sensors, internet, cloud computing and IoT.

It relies on various sensors nodes like ambient temperature and humidity, CO2, illumination, soil temperature and moisture, image, etc. in the farm production site, and wireless communication network to realize intelligent perception, warning, decision, analysis and experts online guidance on the agricultural production environment.

It provides data support for precise planting, visual management and intelligent decision making for agricultural production.

SMART AGRICULTURE-SOLUTION



Main sensor

www.rikasensor.com



Ultrasonic Automatic Weather Instrument

RK900-10



Wind Speed Sensor

RK100-02



Wind Direction Sensor

RK110-02



PAR Sensor

RK200-02



CO₂ Sensor

RK300-03



Ambient Temp RH & Pressure sensor

RK330-01



Rain Gauge

RK400-01



Soil PH Sensor

RK500-22



Soil Temperature Moisture & EC Sensor

RK520-02

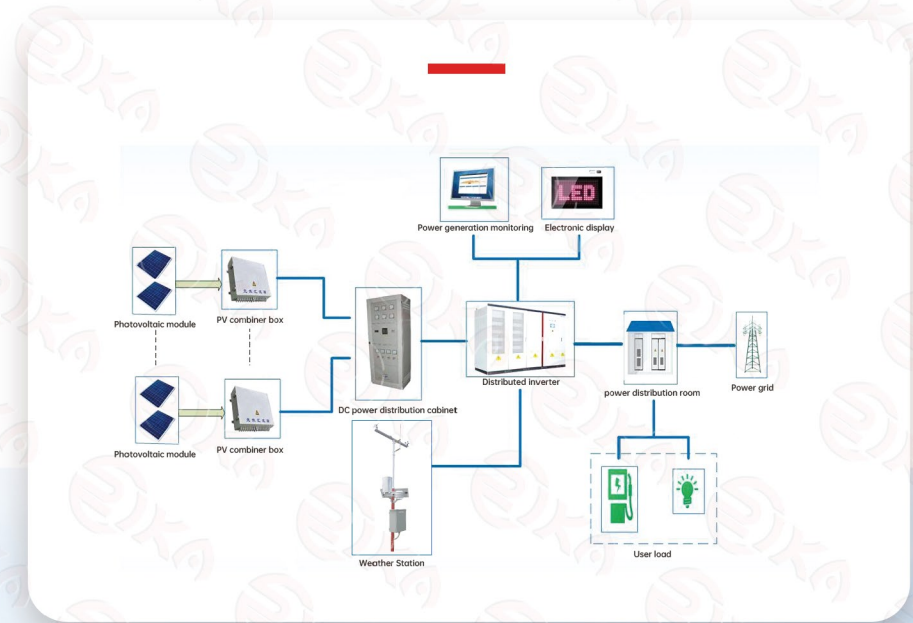
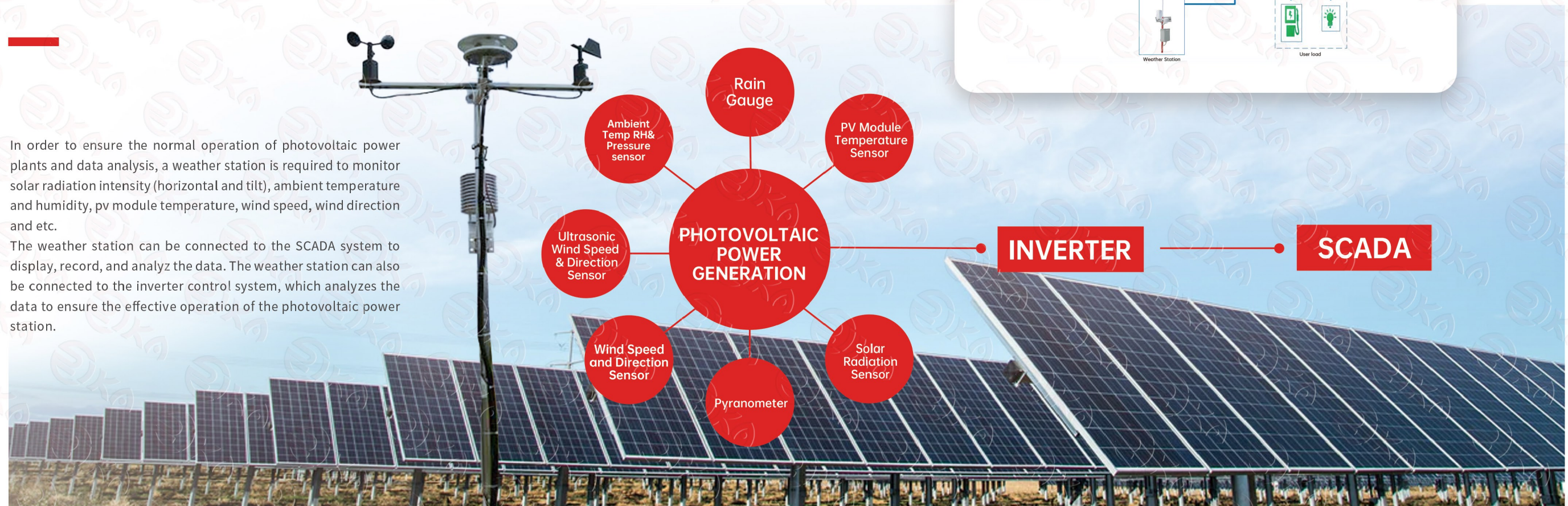
SOLUTION²

PHOTOVOLTAIC POWER GENERATION

PHOTOVOLTAIC POWER GENERATION-SOLUTIONS

In order to ensure the normal operation of photovoltaic power plants and data analysis, a weather station is required to monitor solar radiation intensity (horizontal and tilt), ambient temperature and humidity, pv module temperature, wind speed, wind direction and etc.

The weather station can be connected to the SCADA system to display, record, and analyze the data. The weather station can also be connected to the inverter control system, which analyzes the data to ensure the effective operation of the photovoltaic power station.



Main sensor

RIKA www.rikasensor.com

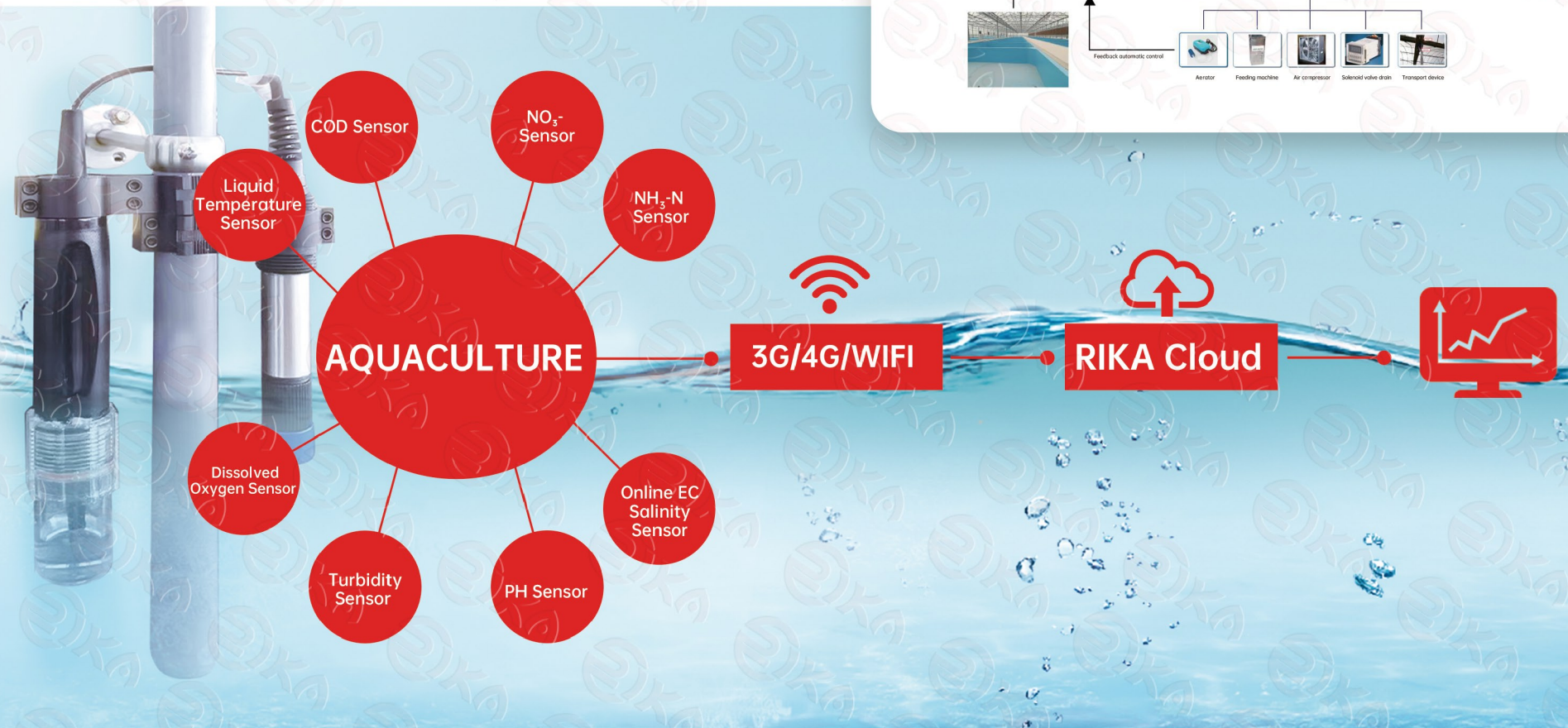
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|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |
| Wind Speed Sensor | Wind Direction Sensor | Ultrasonic Wind Speed & Direction Sensor | PV Module Temperature Sensor | Pyranometer | Solar Radiation Sensor | Ambient Temp RH & Pressure sensor | Rain Gauge |
| RK100-02 | RK110-02 | RK120-03 | RK220-01 | RK200-03 | RK200-04 | RK330-01 | RK400-01 |

SOLUTION ³

Aquaculture

AQUACULTURE - SOLUTIONS

Fine aquaculture management is to control the basic water temperature, light, PH, water dissolved oxygen (DO), turbidity, electrical conductivity and other parameters directly affect the production efficiency of aquaculture. Intelligent reservoir aquaculture data acquisition system provides water monitoring, remote control management, and makes full use of IoT technology to realize real-time monitoring and early warning of the basic parameters in the process of aquaculture. The manager can obtain detailed information on the situation of the fish pond at any time anywhere.



Main sensor

 www.rikasensor.com

- | | | | | | | | |
|---|---|--|---|---|---|---|---|
|  |  |  |  |  |  |  |  |
| Liquid Temperature Sensor | Dissolved Oxygen Sensor | Turbidity Sensor | PH Sensor | Online EC/Salinity Sensor | NH ₃ -N Sensor | NO ₃ - Sensor | COD Sensor |
| RK500-01 | RK500-04 | RK500-07 | RK500-12 | RK500-13 | RK500-15 | RK500-16 | RK500-25 |

SOLUTION⁴

Hydrology

Hydrological weather stations are used for real-time monitoring of hydrological parameters for rivers, lakes, reservoirs, channels and groundwater, reflecting the hydrological characteristics of each water area in a timely manner, so as to facilitate relevant departments to make arrangements and prevent the occurrence of flood and waterlogging disasters. Monitoring includes: water temperature, water level, flow rate, etc. Hydrological weather stations can be widely used in meteorological research, disaster prevention and mitigation, scientific research and etc.



Main sensor



Radar Water Level Sensor

RKL-02



Radar velocity meter

RKL-05



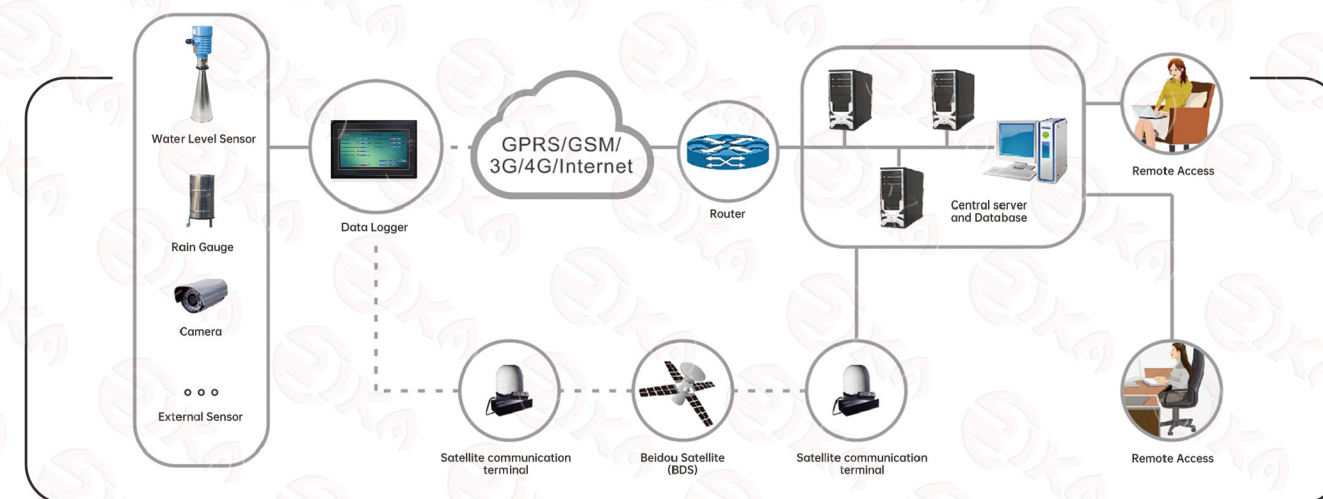
Rain Gauge

RK400-01



Liquid Temperature Sensor

RK500-01

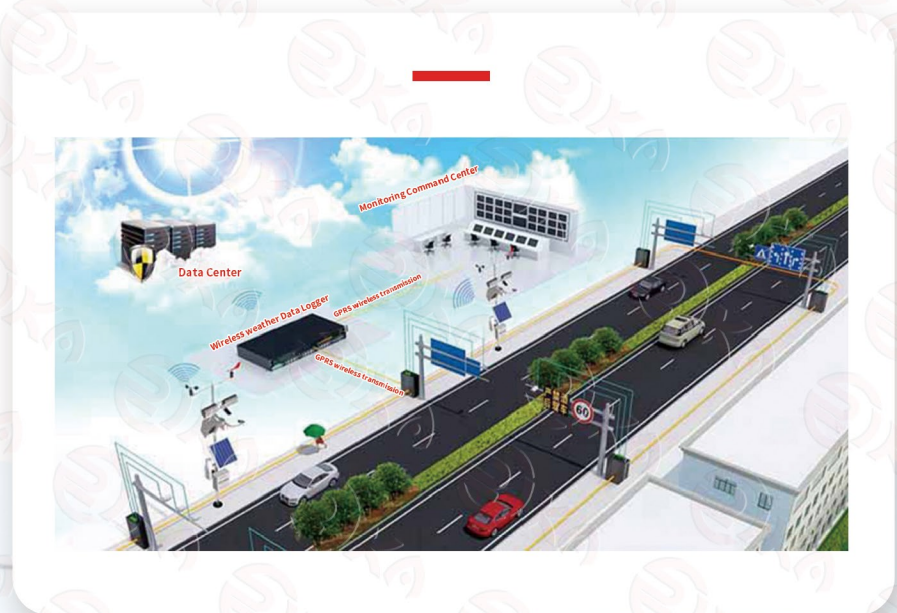


SOLUTION⁵

Traffic Meteorology

TRAFFIC METEOROLOGY - SOLUTION

The traffic weather station is specially designed for traffic weather and is a typical comprehensive road inspection station. It focuses on detecting visibility, weather phenomena and road conditions, and related basic meteorological parameters. It is mainly used to detect abnormal traffic environmental factors and meteorological conditions in time, and provide scientific and real-time basis for meteorological services and traffic management departments.



Main sensor



Wind Speed Sensor

RK100-02



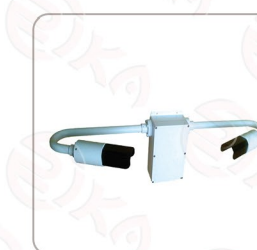
Wind Direction Sensor

RK110-02



Ambient Temp RH & Pressure sensor

RK330-01



Visibility Meter

RK300-10



Rain Gauge

RK400-01



Road Condition Sensor

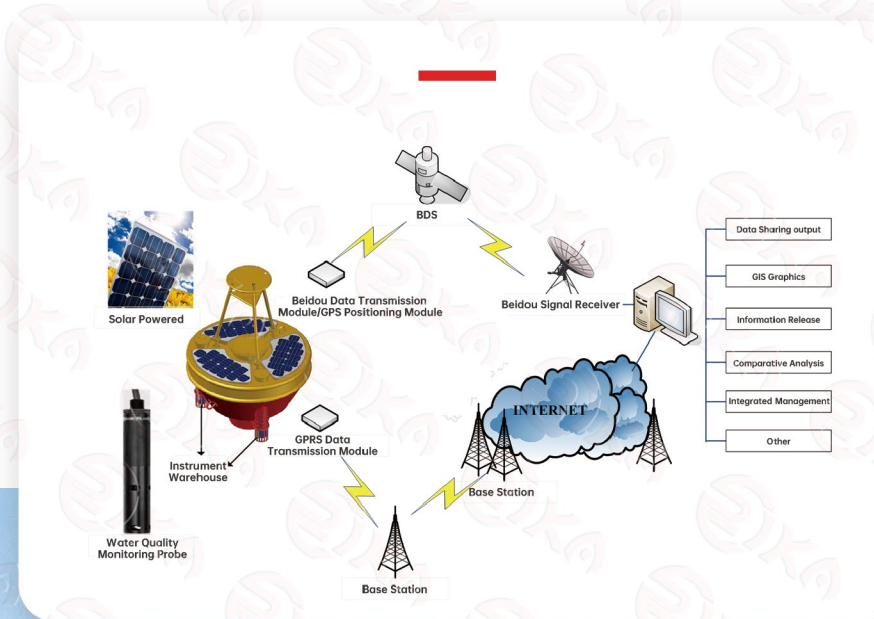
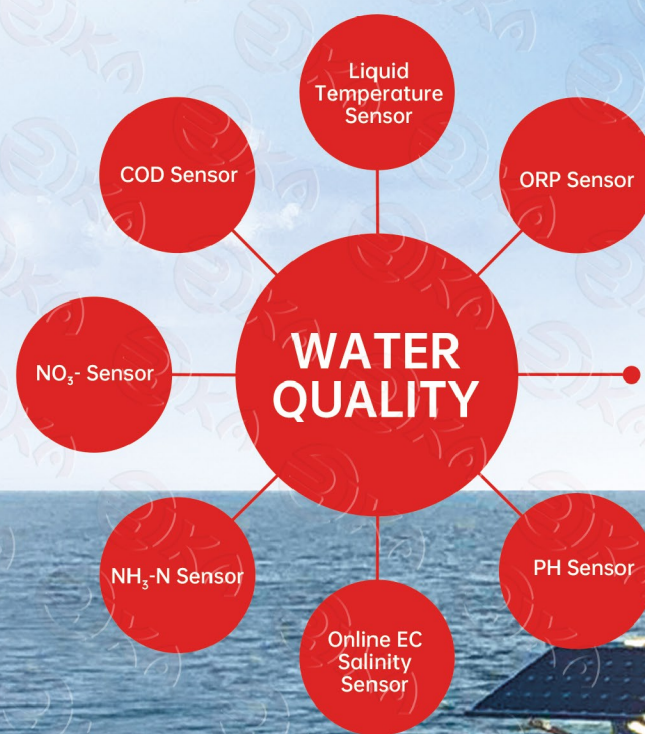
RK500-55

SOLUTION⁶

Water Quality

The deterioration of water quality due to environmental pollution or malicious discharge may cause major harm to human health, aquatic organisms and the entire ecosystem.

Water temperature, electrical conductivity, PH, ORP, dissolved oxygen, turbidity, NH₃-N, COD, etc. are all critical monitoring indicators, timely monitoring are essential to minimize the harm of water quality deterioration and determine the source of pollution



WATER QUALITY-SOLUTION

Main sensor

www.rikasensor.com



Liquid Temperature Sensor
RK500-01



ORP Sensor
RK500-06



PH Sensor
RK500-12



Online EC/Salinity Sensor
RK500-13



NH₃-N Sensor
RK500-15



NO₃- Sensor
RK500-16

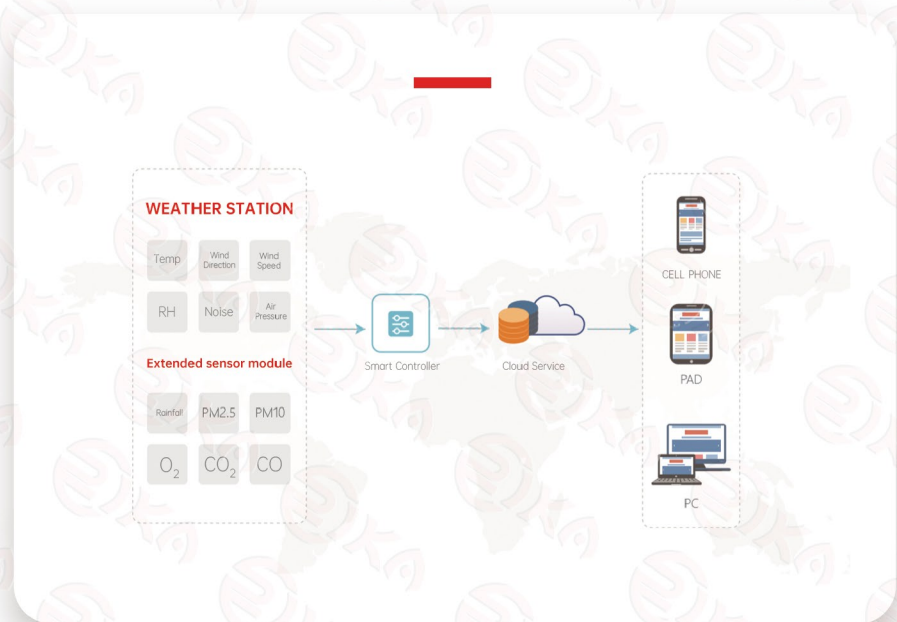


COD Sensor
RK500-25

SOLUTION⁷

Smart City

The automatic meteorological environment monitoring system detects environmental parameters automatically without manual intervention, and uploads data to the designated data center through wire or wireless, which is an important means to make up for the gap of meteorological observation data in space area. It is composed of meteorological sensor, intelligent data logger, power supply, radiation shield, protection box, communication module and so on.



SMART CITY-SOLUTION

Main sensor

www.rikasensor.com



Ultrasonic Automatic Weather Instrument
RK900-10



Wind Speed Sensor
RK100-02



Wind Direction Sensor
RK110-02



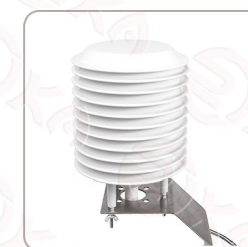
Dust Sensor
RK300-02



CO₂ sensor
RK300-03



Noise sensor
RK300-06



Ambient Temp RH& Pressure sensor
RK330-01



Rain Gauge
RK400-01

SOLUTION 8

Stockbreeding Monitoring

STOCKBREEDING MONITORING-SOLUTION

Moderate light can promote the growth of livestock, the appropriate temperature can reduce the mortality rate, timely discharge of harmful gases can ensure the health of livestock, the impact of environmental factors on breeding efficiency can not be ignored.

The system adopts high-precision sensors to collect environmental parameters in the enclosure in real time.

The central processing unit calculates the data collected from the front end and the breeding conditions, and controls the ventilation system, wet curtain, air conditioning and other equipment in the enclosure according to the calculation results.



Main sensor



CO₂ Sensor
RK300-03



Ambient Temp RH& Pressure sensor
RK330-01



Illuminance Sensor
RK210-01



NH₃ Sensor
RK300-07



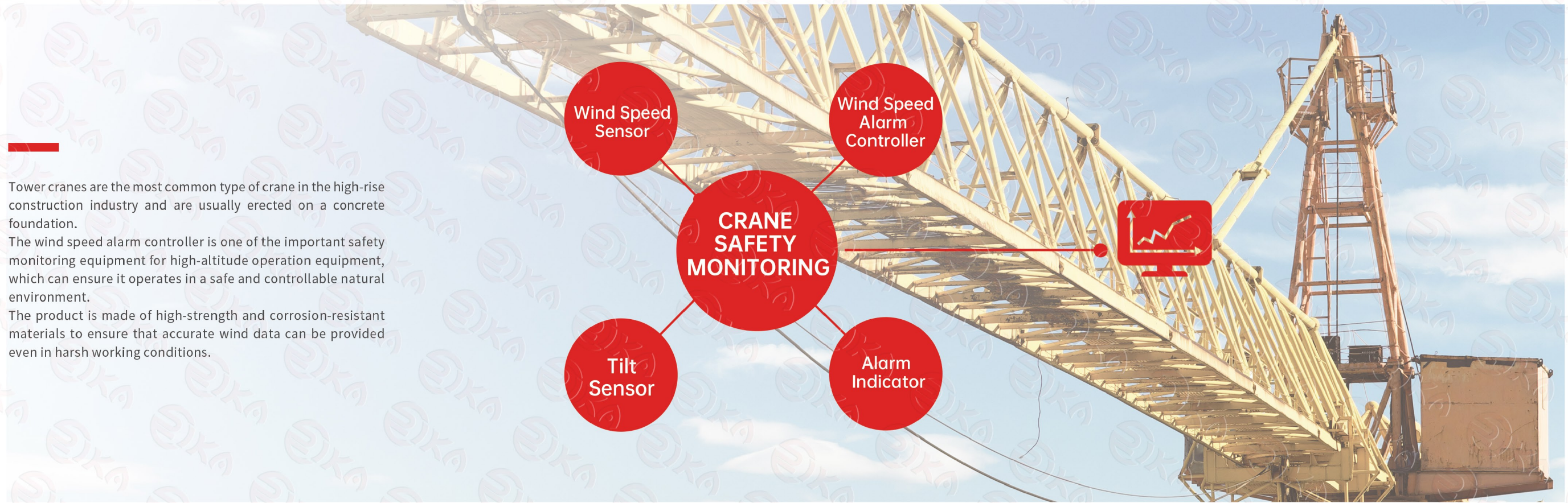
H₂S Sensor
RK300-15



SOLUTION⁹

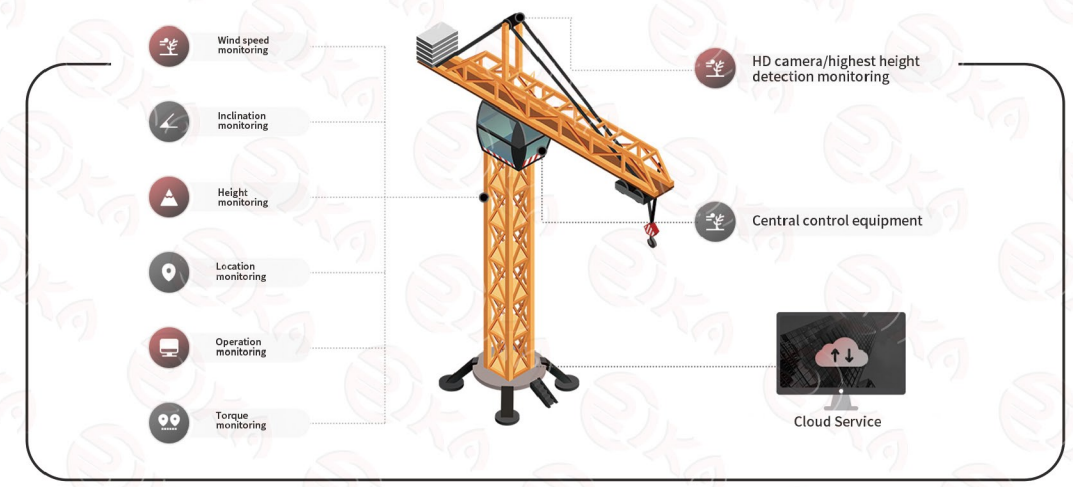
Crane Safety Monitoring

Tower cranes are the most common type of crane in the high-rise construction industry and are usually erected on a concrete foundation. The wind speed alarm controller is one of the important safety monitoring equipment for high-altitude operation equipment, which can ensure it operates in a safe and controllable natural environment. The product is made of high-strength and corrosion-resistant materials to ensure that accurate wind data can be provided even in harsh working conditions.



Main sensor

			
<p>Wind Speed Sensor RK100-01</p>	<p>Wind Speed Alarm Controller RK150-01</p>	<p>Tilt Sensor RK700-01</p>	<p>Alarm Indicator</p>





RIKA CLOUD

RIKA cloud is a universal IoT platform that integrates solutions of various industries as one. It is an IoT system that integrates data collection, data analysis, remote control and early warning release, etc. with solutions as the benchmark.

- ◆ Cloud ecosystem integrates with software and hardware, one-stop solution by providing more than 300 kinds of sensors.
- ◆ The integration of various industry solutions, with data collection, analysis, early warning, linkage control function.
- ◆ Customized hardware access platform services, whole-process technical support.



Environmental Information

Meteorological Conditions

Data Display

Real-time Monitoring

Interconnected Control

Map Presentation



CASE SHOW

