



MIILKIIA

Product manual

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Miilkiia Grow



Miilkiia Agriculture



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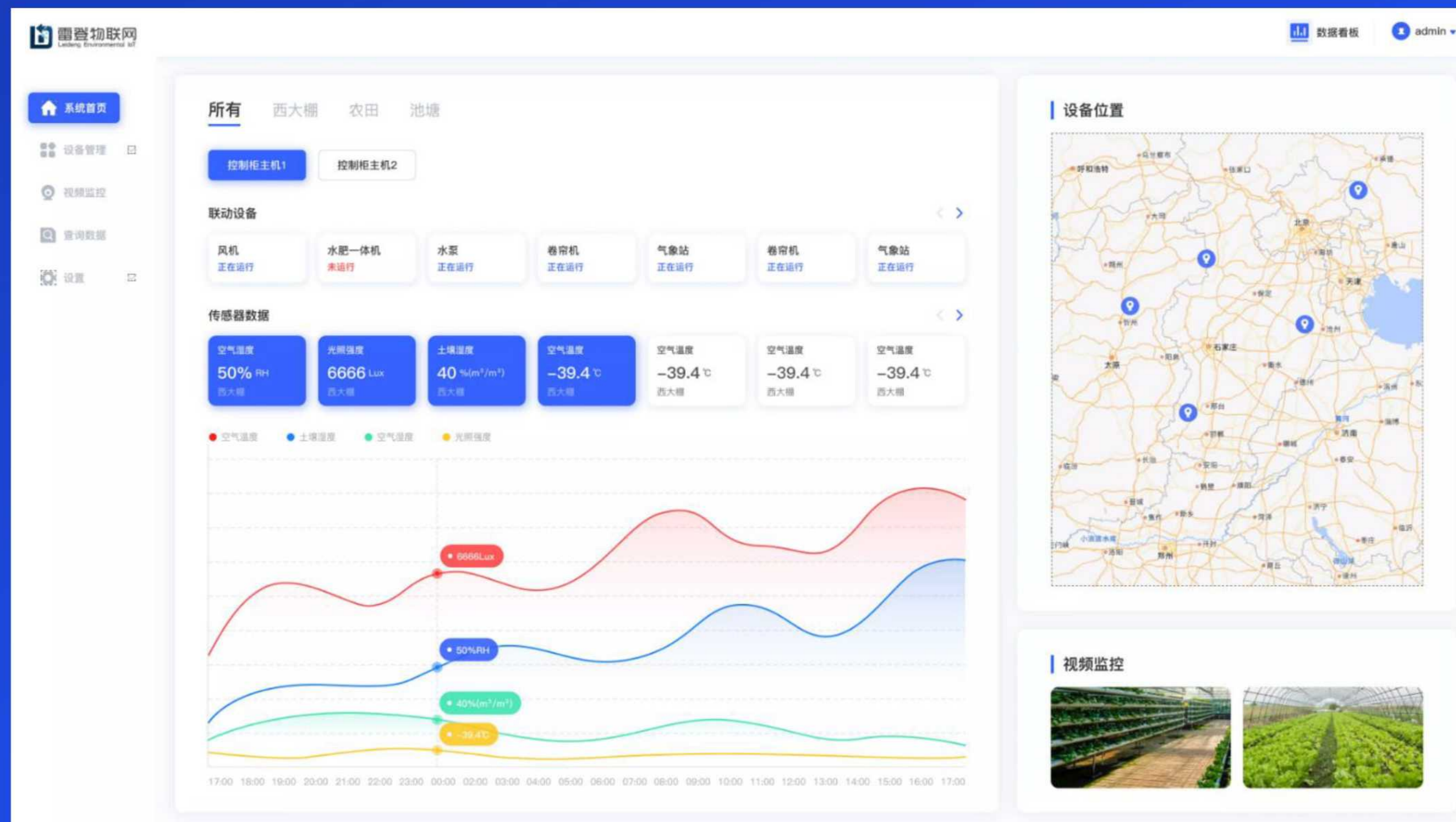
Miilkiia Agriculture

IOT PLATFORM

A concise and easy-to-use IoT platform.

Data inquiry&export/linkage device control/video surveillance/
data dashboard/abnormal alarm/device management.....

PC



small program



PRODUCT CATALOG

1. Automatic control system

Greenhouse Automatic Control System

Smart aquaculture system

Smart irrigation system

2. Automatic weather station

Agricultural meteorological station

Greenhouse meteorological station

Reservoir meteorological station

Scenic Area Meteorological Station

Campus Meteorological Station

Port Meteorological Station

Dust monitoring station

automatic precipitation station

3. Soil moisture monitoring

Soil moisture monitoring system

Pipe type soil moisture monitoring system

Handheld moisture rapid measurement

4. Water quality monitoring system

Water quality monitoring system

5. Plant growth monitoring

Stem growth monitoring system

Fruit growth monitoring system

6. Sensor products

AUTOMATIC CONTROL SYSTEM

Realize the informatization and intelligent remote management of greenhouses, fully leverage the role of IoT technology in facility agriculture production, and ensure that the environment inside the greenhouse is maintained in a suitable state for crop growth.



REAL-TIME DETECTION

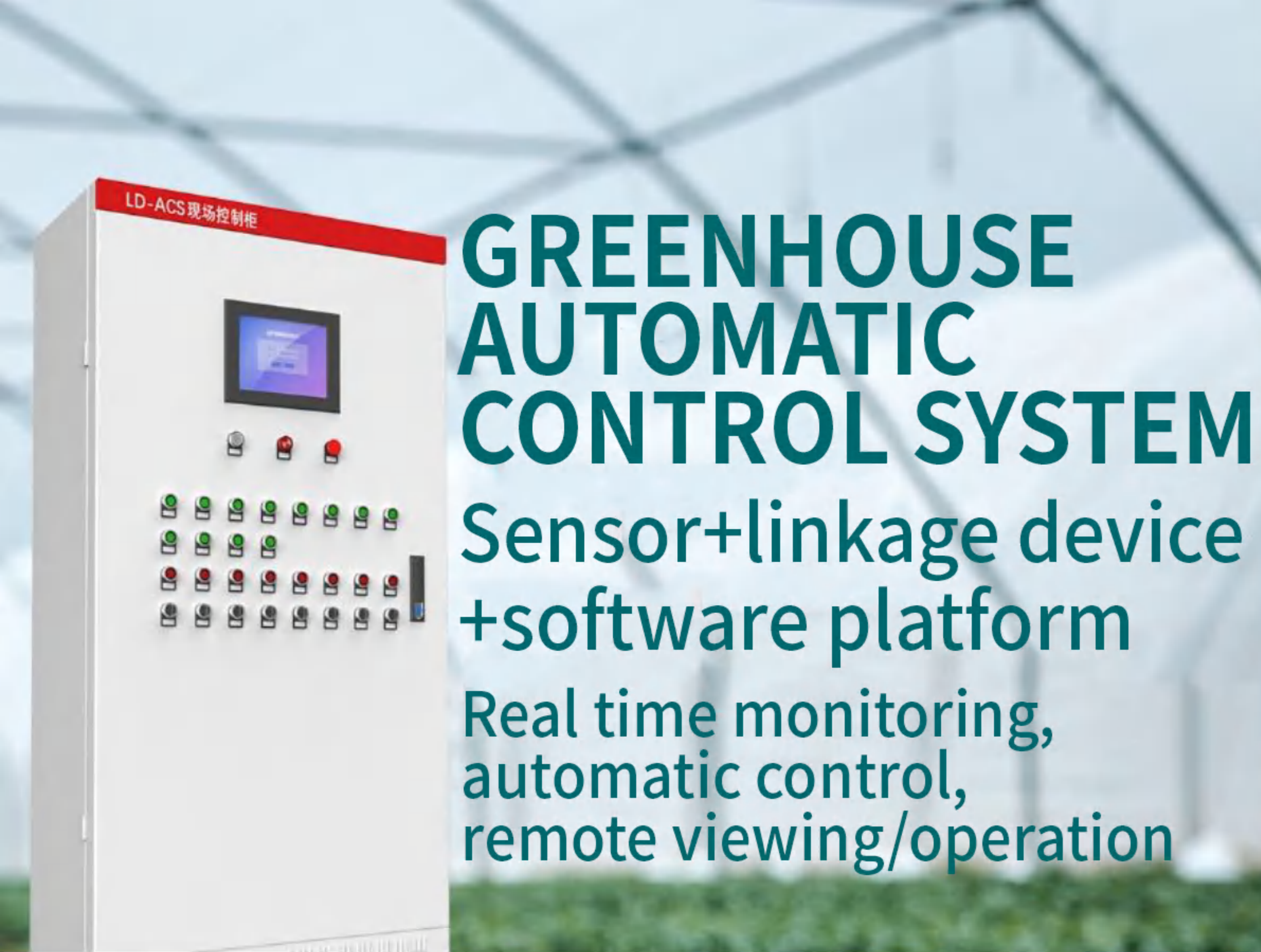
Air temperature and humidity,
soil temperature and humidity,
carbon dioxide concentration
Light intensity video image

AUTOMATIC CONTROL

Wet curtain fan,
inner and outer sunshade roof windows,
side windows
Heating, supplementary lighting,
spray irrigation

REMOTE MANAGEMENT

Through information terminals such as mobile phones and computers, to Managers send real-time monitoring and alarm information



GREENHOUSE AUTOMATIC CONTROL SYSTEM

LINKAGE EQUIPMENT

Fan, roll film, insulation blanket, wet curtain, water fertilizer machine irrigation, etc

EQUIPMENT LIST

Automatic greenhouse control cabinet

SENSOR:

Air temperature and humidity sensor

Carbon dioxide concentration sensor

Illuminance sensor

Photosynthetically active sensor

Soil temperature and humidity sensor

Soil temperature and humidity conductivity sensor

Soil pH sensor

Soil nitrogen, phosphorus, and potassium sensors

Pipe type soil moisture tester

LINKAGE EQUIPMENT:

Fan, film roller, insulation blanket, wet curtain, water fertilizer machine, fill light, etc

(The above sensors and linkage devices are selected and matched according to the actual situation)

OPTIONAL

DL1/DL3 data acquisition host

2-meter stainless steel tripod bracket

Protective box

Solar energy kit



SMART AQUACULTURE SYSTEM

Sensor+
linkage device+
software platform
Real time monitoring,
automatic control,
remote viewing/operation



SMART AQUACULTURE SYSTEM

LINKAGE EQUIPMENT

Automatic feeding machine, fan, water curtain, heating, ventilation window, etc.

Optional selection

LED screen

DL1/DL3 data acquisition host

2-meter stainless steel tripod bracket

Protective box

Solar energy kit

EQUIPMENT LIST

Sensor:

Air temperature and humidity sensor

Carbon dioxide concentration sensor

Air temperature and humidity carbon dioxide sensor

Ammonia gas sensor

Methane sensor

Illuminance sensor

(The above sensors and linkage devices are selected and matched according to the actual situation)

Automatic greenhouse control cabinet

SMART IRRIGATION SYSTEM

Sensor+
linkage device+
software platform

Real time monitoring,
automatic control,
remote viewing/operation



SMART IRRIGATION SYSTEM

LINKAGE EQUIPMENT

Water fertilizer machine

EQUIPMENT LIST

Soil temperature and humidity conductivity sensor

Soil nitrogen, phosphorus, and potassium sensors

Automatic greenhouse control cabinet

Optional selection

LED screen

AUTOMATIC WEATHER STATION

Automatic weather stations can accurately measure various meteorological elements on site 24/7. It can store meteorological data for at least one year and transmit it to the central computer meteorological database through various communication methods. Widely used in fields such as meteorology, environmental protection, airports, agriculture and forestry, scientific research, etc.

REAL-TIME DETECTION

Wind speed, wind direction, rainfall, temperature, humidity, radiation, atmospheric pressure

STABLE AND RELIABLE

Can operate in various harsh outdoor environments, with low power consumption, high stability, and high precision. Can store meteorological data for at least one year.

ON DEMAND CUSTOMIZATION

Meteorological sensors can be configured according to demand. Multiple communication methods are available for selection. Open design of hardware and software, which can be flexibly combined and used.



AGRICULTURAL METEOROLOGICAL STATION

Customizable on demand



MEASUREMENT PARAMETERS

Air temperature, air humidity, atmospheric pressure, wind speed, wind direction, light intensity, rainfall, PM2.5, soil temperature, soil humidity, soil DH, soil ammonia, phosphorus, and potassium

EQUIPMENT LIST

Air temperature, humidity, illumination, atmospheric pressure sensor

PM2.5 sensor

Wind speed sensor

Wind direction sensor

rain sensor

Soil temperature and humidity sensor

Soil pH sensor

Soil nitrogen, phosphorus, and potassium sensors

2-meter stainless steel tripod bracket

Protective box

DL1/DL3 data acquisition host

OPTIONAL

Solar energy kit

GREENHOUSE METEOROLOGICAL STATION

Customizable on demand



MEASUREMENT PARAMETERS

Air temperature, air humidity, carbon dioxide concentration, photosynthetically active radiation, soil temperature, soil humidity, soil salinity

EQUIPMENT LIST

Air temperature and humidity carbon dioxide sensor
Photosynthetically active radiation sensor
Soil temperature and humidity sensor
Soil salinity sensor

2-meter stainless steel tripod bracket
Protective box
DL1/DL3 data acquisition host

OPTIONAL

Solar energy kit

RESERVOIR METEOROLOGICAL STATION

Customizable on demand



MEASUREMENT PARAMETERS

Air temperature, air humidity, wind speed, wind direction, light intensity, rainfall, water pH value, water conductivity, water dissolved oxygen, water turbidity, water ammonia nitrogen, water ORP, water temperature

EQUIPMENT LIST

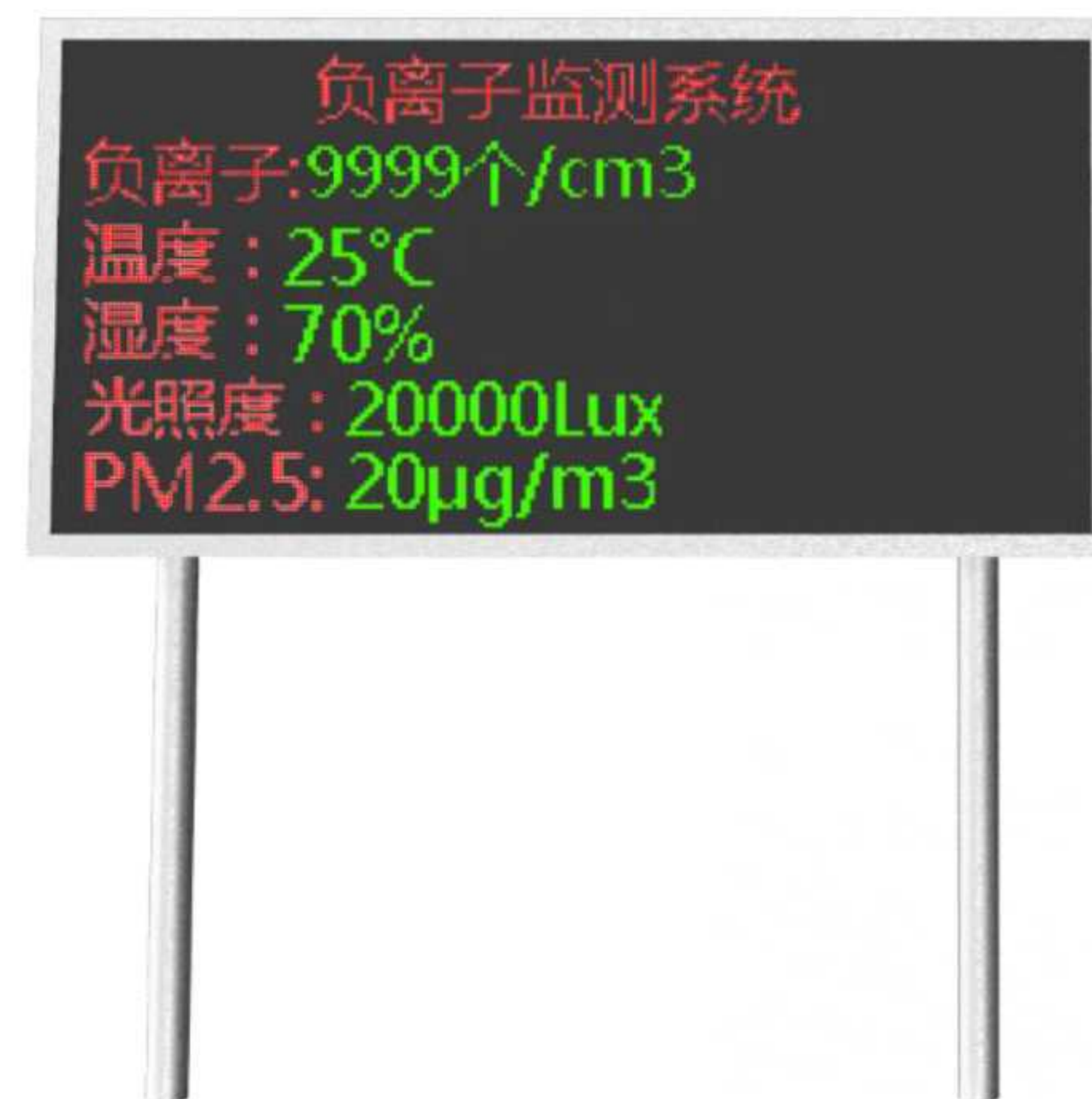
Air temperature and humidity sensor
Illuminance sensor
Wind speed sensor
Wind direction sensor
rain sensor
Water ammonia nitrogen sensor
Water conductivity sensor
Water pH sensor
Water turbidity sensor
Water temperature sensor
Dissolved oxygen sensor for water bodies
ORP sensor for water body
Customized 3.5-meter stainless steel cage bracket
Protective box
DL1/DL3 data acquisition host

OPTIONAL

Solar energy kit

SCENIC AREA METEOROLOGICAL STATION

Customizable on demand



MEASUREMENT PARAMETERS

Air temperature, air humidity, atmospheric pressure, PM, wind speed, wind direction, negative oxygen ions

EQUIPMENT LIST

Air temperature, humidity, and atmospheric pressure sensor
Air particulate matter concentration sensor
Wind speed sensor
Wind direction sensor

Customized 3.5-meter stainless steel cage bracket
Protective box
DL1/DL3 data acquisition host

OPTIONAL

Solar energy kit
LED screen
Negative oxygen ion detector

CAMPUS METEOROLOGICAL STATION

Customizable
on demand



MEASUREMENT PARAMETERS

Air temperature, air humidity, atmospheric pressure, PM, wind speed, wind direction, lighting, UV

EQUIPMENT LIST

Air temperature, humidity, and atmospheric pressure sensor
Air particulate matter concentration sensor
Illuminance sensor
Wind speed sensor
Wind direction sensor

Customized 3.5-meter stainless steel cage bracket
Protective box
DL1/DL3 data acquisition host

OPTIONAL

UV radiation sensor
Surveillance camera
Solar energy kit
LED screen

PORT METEOROLOGICAL STATION

Customizable on demand



MEASUREMENT PARAMETERS

Air temperature, air humidity, atmospheric pressure, wind speed, wind direction, lighting, rainfall, evaporation rate

EQUIPMENT LIST

Air temperature, humidity, and atmospheric pressure sensor
Illuminance sensor
Wind speed sensor
Wind direction sensor
rain sensor
Water surface evaporation sensor

Customized 3.5-meter stainless steel cage bracket
Protective box
DL1/DL3 data acquisition host

OPTIONAL

Solar energy kit

DUST MONITORING STATION

Customizable on demand



MEASUREMENT PARAMETERS

Air temperature, air humidity, PM, wind speed, wind direction, noise

EQUIPMENT LIST

Air temperature and humidity sensor
Air particulate matter concentration sensor
Wind speed sensor
Wind direction sensor
Noise sensor

Customized 3.5-meter stainless steel cage bracket
Protective box
DL1/DL3 data acquisition host

OPTIONAL

Solar energy kit
led screen

AUTOMATIC PRECIPITATION STATION

Customizable
on demand



MEASUREMENT PARAMETERS

Rainfall

EQUIPMENT LIST

Rain sensor
Solar energy kit

OPTIONAL

Protective enclosure

SOIL MOISTURE MONITORING

The automatic soil moisture monitoring system mainly monitors the soil moisture content and soil temperature, measuring the soil volumetric moisture content (VWC) and temperature values through soil moisture sensors and temperature sensors.

REAL-TIME DETECTION

Real time collection of soil moisture information and automatic wireless transmission to the monitoring platform.

ACCURATE MEASUREMENT AND REPORTING

Adopting high-precision sensors. The system operation does not require manual participation, and the measurement and reporting are accurate

UNATTENDED

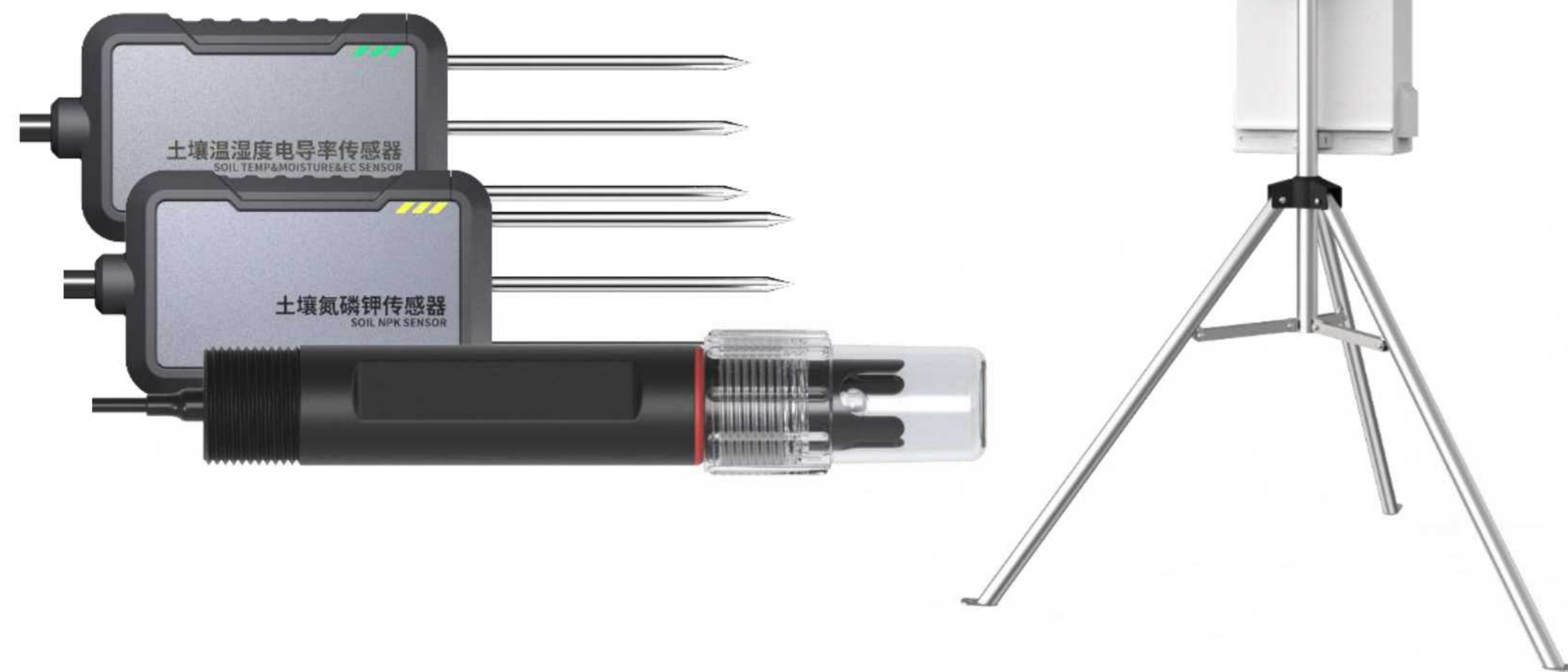
Solar powered, can be connected to wireless transmission modules
Waterproof, dustproof, and lightning resistant, suitable for long-term use in outdoor environments.

SCALABLE DEVELOPMENT

Drought prediction and forecasting, irrigation area optimization, water distribution, seedling situation, water-saving irrigation, early monitoring system

SOIL MOISTURE MONITORING SYSTEM

Customizable on demand



MEASUREMENT PARAMETERS

Soil temperature, soil moisture, soil conductivity, soil pH value, soil nitrogen, phosphorus, and potassium

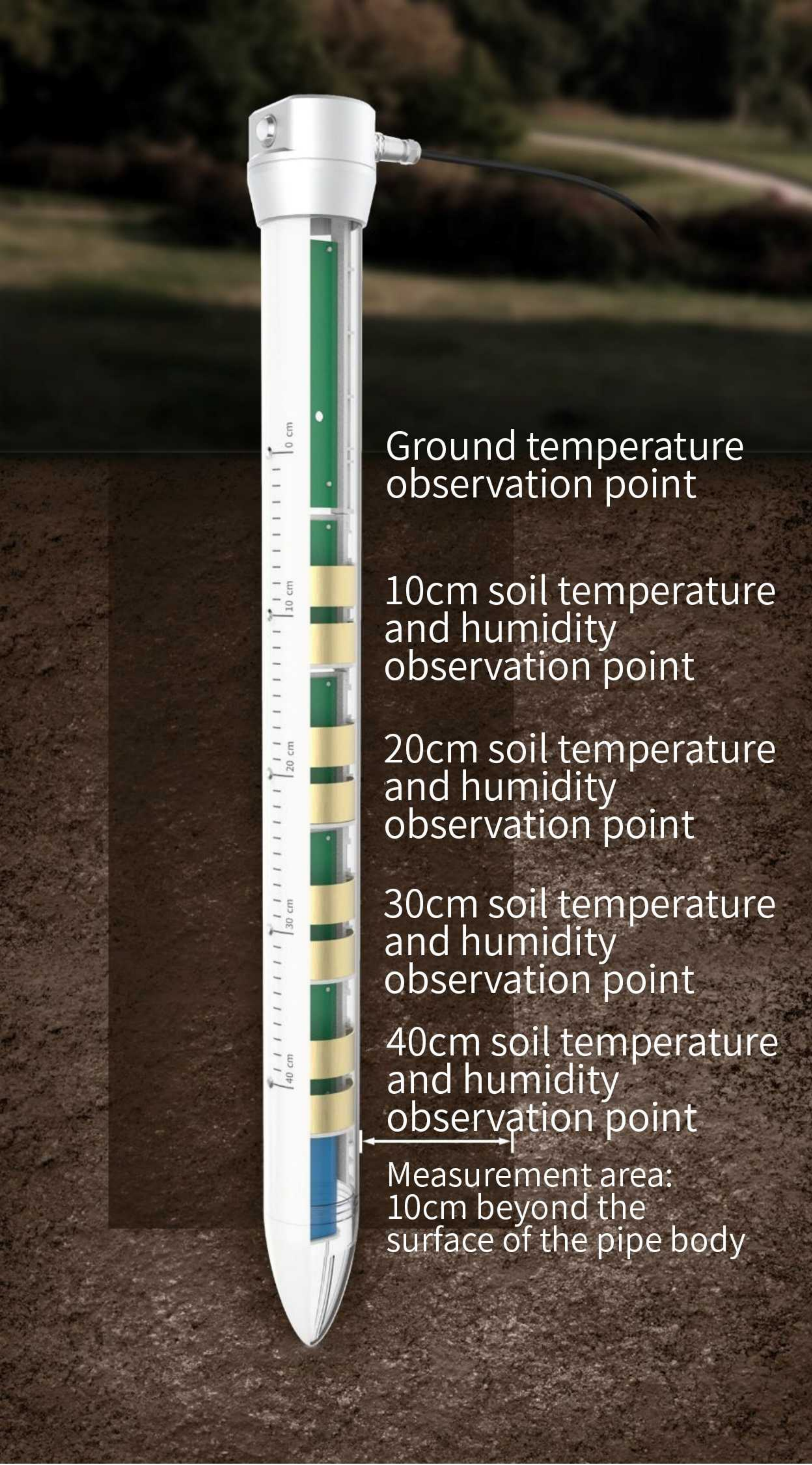
EQUIPMENT LIST

Soil temperature and humidity conductivity sensor
Soil pH sensor
Soil nitrogen, phosphorus, and potassium sensors

DL1/DL3 data acquisition host
2-meter stainless steel tripod bracket
Protective box

OPTIONAL

Solar energy kit



Ground temperature observation point

10cm soil temperature and humidity observation point

20cm soil temperature and humidity observation point

30cm soil temperature and humidity observation point

40cm soil temperature and humidity observation point

Measurement area: 10cm beyond the surface of the pipe body

SOIL MOISTURE MONITORING SYSTEM

Tube type moisture tester



MEASUREMENT PARAMETERS

Soil temperature, soil moisture, X-axis inclination angle, Y-axis inclination angle

EQUIPMENT LIST

Tube type moisture tester
Solar energy kit



RAPID MEASUREMENT OF SOIL MOISTURE

Temperature, humidity, conductivity, pH, nitrogen, phosphorus, and potassium are automatically stored and exported in Excel format



MEASUREMENT PARAMETERS

Soil temperature, soil moisture, soil conductivity, soil pH value, soil nitrogen, phosphorus, and potassium

EQUIPMENT LIST

Soil temperature and humidity conductivity sensor
Soil pH sensor
Soil nitrogen, phosphorus, and potassium sensors

Handheld speedometer set

WATER QUALITY MONITORING SYSTEM

The water quality monitoring system conducts real-time monitoring of various indicators of water bodies and objectively evaluates the water quality status through sensor data.

REAL-TIME COLLECTION

Real time collection of soil moisture information and automatic wireless transmission to the monitoring platform

ACCURATE MEASUREMENT AND REPORTING

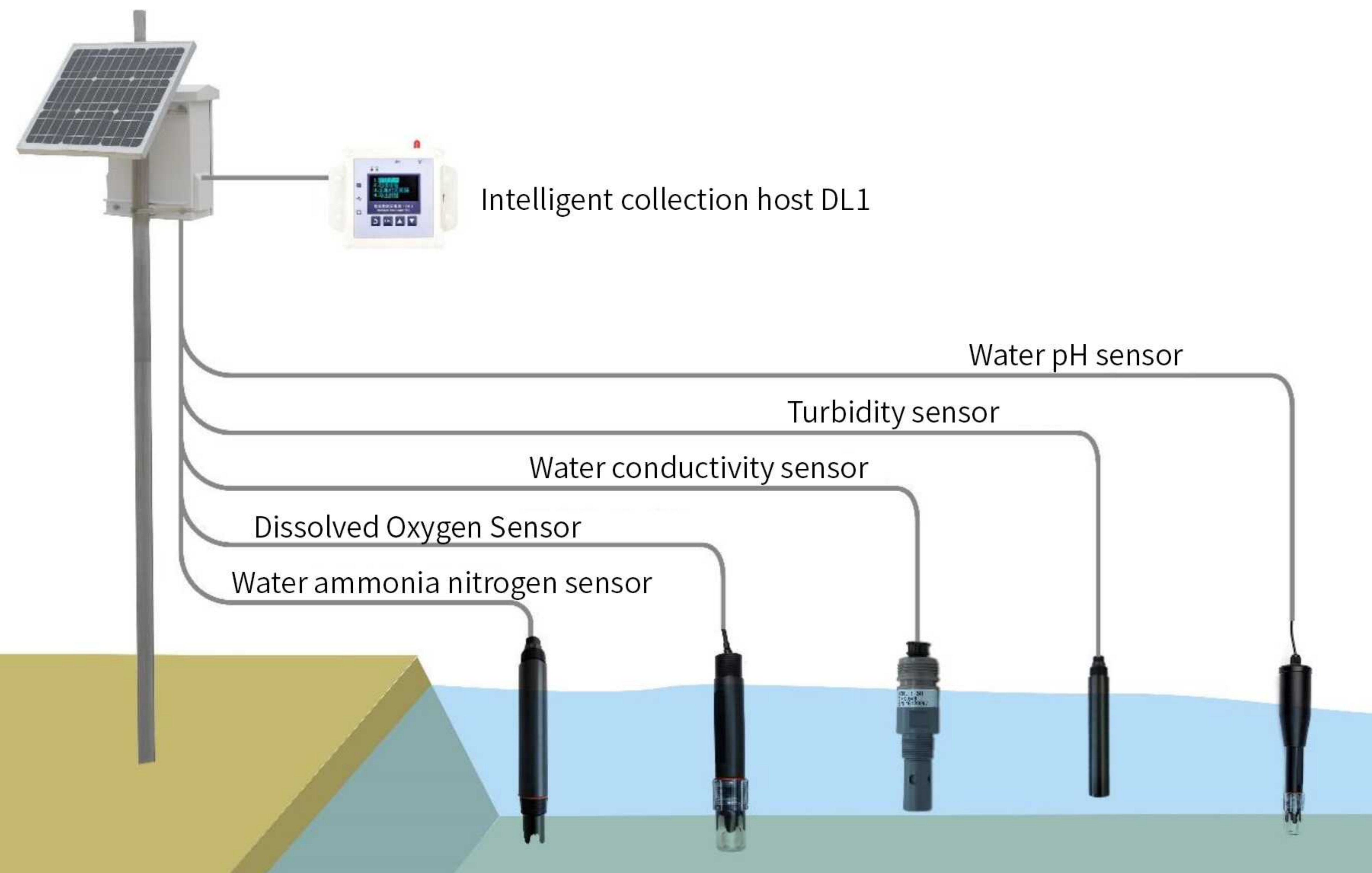
Adopting high-precision sensors. The system operation does not require manual participation, and the measurement and reporting are accurate

UNATTENDED

Powered by solar energy, can be connected to wireless transmission modules. Waterproof, dustproof, and lightning resistant, suitable for long-term use in outdoor environments.

WATER QUALITY MONITORING SYSTEM

Customizable on demand



MEASUREMENT PARAMETERS

Water pH value, water conductivity, water dissolved oxygen, water turbidity, water ammonia nitrogen, water ORP, water temperature

EQUIPMENT LIST

- Water ammonia nitrogen sensor
- Water conductivity sensor
- Water pH sensor
- Water turbidity sensor
- Water temperature sensor
- Dissolved oxygen sensor for water bodies
- ORP sensor for water body
- Customized stainless steel bracket
- Protective box
- DL1/DL3 data acquisition host

OPTIONAL

- Solar energy kit

PLANT GROWTH MONITORING

High precision displacement increment sensor, used to measure the growth rate of plants. The displacement sensor recorded the growth size of the complete fruit. High precision detection of micrometer scale displacement has been achieved, which is suitable for measuring various plant stems and has no harm to plants.

REAL-TIME COLLECTION

Real time collection of soil moisture information and automatic wireless transmission to the monitoring platform

ACCURATE MEASUREMENT AND REPORTING

Adopting high-precision sensors. The system operation does not require manual participation, and the measurement and reporting are accurate

UNATTENDED

Powered by solar energy, can be connected to wireless transmission modules. Waterproof, dustproof, and lightning resistant, suitable for long-term use in outdoor environments.

FRUIT/STEM GROWTH MONITORING SYSTEM

Range and measurement range can be selected with wired/4G upload



MEASUREMENT PARAMETERS

Fruit expansion/stem growth

EQUIPMENT LIST

Fruit growth sensor
Stem growth sensor
DL1/DL3 data acquisition host

2-meter stainless steel tripod bracket
Protective box

OPTIONAL

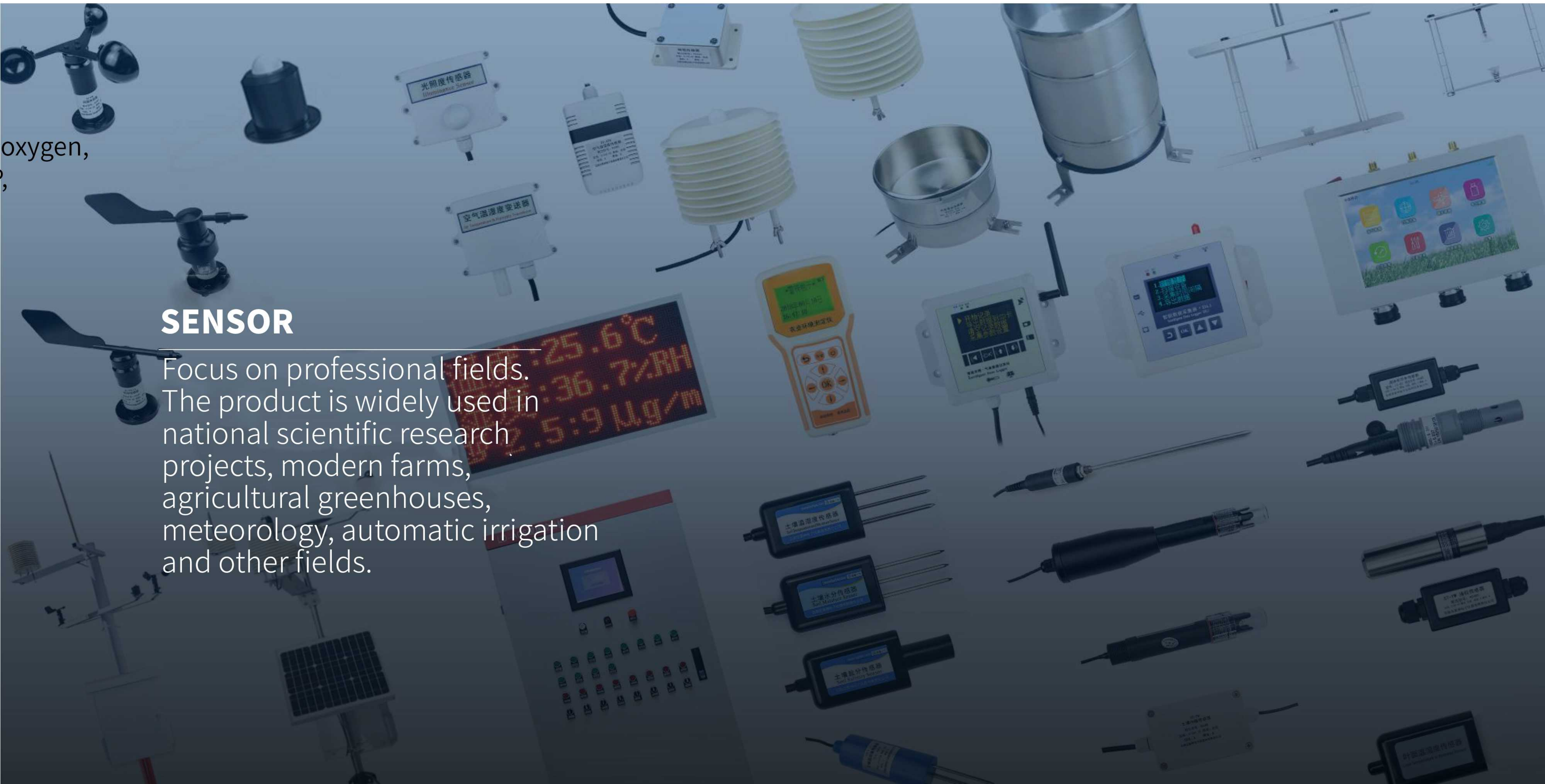
Solar energy kit

oxygen,
pH,




SENSOR

Focus on professional fields.
The product is widely used in national scientific research projects, modern farms, agricultural greenhouses, meteorology, automatic irrigation and other fields.




25.6°C
36.7%RH
2.5:9 μg/m






ENVIRONMENTAL METEOROLOGY SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	Wind speed sensor	Wind speed: range 0-30m/s, accuracy 0.15m/s
	Wind direction sensor	Wind direction: range 0~360 °, 16 directions
	Wind direction sensor	Wind direction: range 0~360 °, accuracy $\pm 1^\circ$




ENVIRONMENTAL METEOROLOGY SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	Integrated wind speed and direction sensor	Wind speed: range 0~30m/s, accuracy 0.15m/s Wind direction: range 0~360 °, 16 directions
	Rain sensor	Precipitation intensity: Range<4mm/min (8mm/min available), error $\pm 4\%$ (2mm/min indoor static test)
	Evaporation sensor	Water surface evaporation: range 0~75mm, accuracy $\pm 0.1\text{mm}$




ENVIRONMENTAL METEOROLOGY SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	Illuminance sensor	Light intensity: Range 0-2/20/200kLux, accuracy $\pm 3\%$
	Illuminance sensor	Light intensity: Range 0~65535 Lux, accuracy $\pm 3\%$
	Photosynthetically active sensor	Photosynthetically active radiation: range 0~2500 $\mu\text{mol}/\text{m}^2\text{s}$, resolution 1 $\mu\text{mol}/\text{m}^2\text{s}$




ENVIRONMENTAL METEOROLOGY SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	Air temperature and humidity sensor	Air temperature: range -40-70 °C, accuracy ± 0.3 °C (25 °C C) Relative humidity: Range 0~100% RH, accuracy $\pm 2\%$ RH (106~90%)
	Carbon dioxide sensor	Air temperature: range -40-70 °C, accuracy ± 0.3 °C (25 °C C) Relative humidity: Range 0~100% RH, accuracy $\pm 2\%$ RH (106~90%)
	Air temperature and humidity sensor	Carbon dioxide concentration: range 0-2000/5000/10000/30000/50000, accuracy $3\% \pm 50$ ppm (0-2000/5000ppm), $3\% \pm 100$ ppm (0-10000/30000ppm), $3\% \pm 300$ ppm (0-50000ppm)


ENVIRONMENTAL METEOROLOGY SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	Air particulate matter concentration sensor	Total particulate matter: Measurement parameters PM1.0, PM2.5, PM10, range 0-500ug/m3, accuracy $\pm 3\%$
	Three parameter sensors for air temperature, humidity, and illuminance	Air temperature: range -40~70 °C, accuracy ± 0.3 °C Relative humidity: Range 0-100MRH, accuracy $\pm 3\%$ 6RH Light intensity (outdoor type): Range 0~2/20/200kLux, accuracy $\pm 3\%$ Light intensity (indoor type): Range 0-65535Lux, accuracy $\pm 3\%$
	Three parameter sensors for air temperature, humidity, and atmospheric pressure	Air temperature: range -40-70 °C, accuracy ± 0.3 °C Relative humidity: Range 0~100MRH, accuracy $\pm 3\%$ RH Atmospheric pressure: range 300-1100hPa, accuracy ± 1 hPa




ENVIRONMENTAL METEOROLOGY SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	Air temperature and humidity, dew point temperature Three parameter sensor	Air temperature: range -40~70 °C, accuracy ± 0.3 °C Relative humidity: Range 0-100% RH, accuracy $\pm 3\%$ RH Dew point temperature: range -70~30 °C, accuracy $\pm 0.2\%$
	Air temperature and humidity, carbon dioxide Illumination four parameter senso	Air temperature: Range -40~70 °C, accuracy ± 0.3 °C Relative humidity: Range 0-100% RH, accuracy $\pm 3\text{MRH}$ Carbon dioxide concentration: Range 0~2000/5000/10000, accuracy $\pm 20\text{ppm}$ Light intensity: Range 0-2/20/200kLux, accuracy $\pm 3\%$
	Air temperature, humidity, and illuminance Atmospheric pressure four parameter sensor	Air temperature: Range -40~70 °C, accuracy ± 0.3 °C Relative humidity: Range 0-100% RH, accuracy $\pm 3\text{MRH}$ Light intensity (outdoor type): Range 0~2/20/200kLux, accuracy $\pm 3\%$ Light intensity (indoor type): Range 0-65535Lux, accuracy $\pm 3\%$ Atmospheric pressure: Range 300~1100hPa, accuracy $\pm 1\text{h}$




ENVIRONMENTAL METEOROLOGY SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	Five parameter sensors for air temperature and humidity, atmospheric pressure carbon dioxide, and illuminance	Air temperature: Range -40-70 °C, accuracy ± 0.3 °C Relative humidity: Range 0~100% RH, accuracy $\pm 3\%$ RH Atmospheric pressure: Range 300-1100hPa, accuracy ± 1 hPa Carbon dioxide concentration: Range 0~2000/5000/10000, accuracy ± 20 ppm Light intensity: Range 0-2/20/200kLux, accuracy $\pm 3\%$


AUTOMATIC WEATHER STATION SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	<p style="text-align: center;">DL1 Data collection host</p>	<p>This host is powered by a 12V DC power supply, a 2.54-inch screen, a GPRS network transmission module, a wired network module, a USB data output module, and other hardware components. It is used to collect digital sensor signals that are compatible with our company and can be transmitted to servers and computers through GPRS network, wired network, and bus; Supports exporting data from USB flash drives and allows for USB upgrade.</p>
	<p style="text-align: center;">DL2 Intelligent data collection host</p>	<p>This host is powered by a 12V DC power supply, a 5-inch color touch screen, a full network 4G network transmission module, a wired network module, a USB data output module, an aviation plug, and other hardware components. It is used to collect digital sensor signals and analog current and voltage sensor signals that are compatible with our company. These signals can be transmitted to servers and computer terminals through GPRS network, wired network, and bus; Supports exporting data from USB flash drives, allowing for USB upgrade or 4G remote upgrade, and also supports GPS positioning for remote viewing of the host's geographical location.</p>
	<p style="text-align: center;">DL3 Data collection host</p>	<p>This host supports 9-24V DC power supply, with two status indicator lights, a full network 4G network transmission module, a USB data output module, 2 relay outputs, 2 RS485 buses and 1 RS232 bus, with LORA local wireless acquisition and transmission module, supports USB data export, USB upgrade, supports multiple 485 bus modbus format data acquisition, and supports 4G transmission to the server</p>




AUTOMATIC WEATHER STATION SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	<p>MDL5 Intelligent data collector</p>	<p>Used for all-weather on-site monitoring of nine meteorological elements including wind direction, wind speed, rainfall, temperature, relative humidity, air pressure, solar radiation, soil temperature, and soil moisture. Equipped with mobile weather SMS function, it can communicate through various methods; The wired, data transmission radio, GPRS mobile microcomputer meteorological data acquisition instrument has functions such as meteorological data acquisition, real-time clock, timed storage of meteorological data, parameter setting, friendly human-machine interface, and standard communication.</p>
	<p>LPDL Low power data collector</p>	<p>This host is equipped with 6 5th batteries, RGB operation indicator lights, USB upgrade and USB data export functions, upper computer connection interface, up to 12 analog signal acquisition channels, and excellent configuration with ultra-low standby current of 9uA. It supports USB insertion wake-up and USB cable insertion wake-up functions, making it very suitable for use in outdoor situations where power supply is inconvenient.</p>
	<p>OXZ-ZJ20 Three legged bracket for meteorological station</p>	<p>2-meter stainless steel bracket, sturdy and stable, carrying protective boxes, sensors, solar energy, etc. Easy to install and move.</p>




AUTOMATIC WEATHER STATION SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	Customization of Weather Station Cage Support	Customized ground cage meteorological bracket. The installation method of the ground cage is reliable and stable, with strong wind resistance.




SOIL MOISTURE SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	<p>S400L Tube type moisture tester</p>	<p>Soil temperature: Range -30~70 °C, accuracy ± 0.5 °C Soil volumetric moisture content: Range 0~100% (m^3/m^3), accuracy $\pm 3\%$ (m^3/m^3)</p>
	<p>S400 Soil temperature, humidity, conductivity, salinity sensor</p>	<p>Soil temperature: Range -30~70 °C, accuracy ± 0.2 °C Soil volumetric moisture content: within the range of 0-100% (m^3/m^3) and 0-50% (m^3/m^3), with an accuracy of $\pm 2\%$ (m^3/m^3) Soil conductivity: Standard range 0~10mS/cm (can be customized 0~20mS/cm, etc.), accuracy $\pm 2\%$ Soil salinity: Range 0~5000mg/L, accuracy $\pm 2\%$</p>
	<p>Soil nitrogen, phosphorus, and potassium sensors</p>	<p>Soil nitrogen content: Range 0-1999mg/kg, accuracy $\pm 2\%$ Soil phosphorus content: Range 0~1999mg/kg, accuracy $\pm 2\%$ Soil potassium content: Range 0~1999mg/kg, accuracy $\pm 2\%$</p>




SOIL MOISTURE SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	<p>S200 Soil temperature and humidity sensor</p>	<p>Soil temperature: Range -30~70 °C, accuracy ± 0.2 °C Soil volumetric moisture content: Within the range of 0-100% (m^3/m^3) and 0-50% (m^3/m^3) accuracy is $\pm 3\%$ (m^3/m^3)</p>
	<p>S100 Soil moisture sensor</p>	<p>Soil moisture content: Range 0~100% (m/m^3), accuracy $\pm 3\%$ (m^3/m^3)</p>
	<p>T1 Soil Temperature Sensor</p>	<p>Temperature of soil/air/solution/flame/boiler: accuracy ± 0.2 °C</p>


SOIL MOISTURE SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	<p>Soil pH sensor</p>	<p>Soil pH value: Range 0-14, accuracy ± 0.02 (pH 4-9)</p>
	<p>TSC-1 Soil moisture analyzer</p>	<p>The TSC-1 soil moisture analyzer can quickly measure the volumetric moisture content of soil and porous media. The instrument has multiple functions, including storing, calculating average values, viewing historical data, and automatically recording and storing data from 1 minute to 23:59 minutes. And the data curve can be viewed on the upper computer, and the data can also be exported and stored as an Excel spreadsheet file.</p>
	<p>TSC-IW Soil temperature and humidity rapid measuring instrument</p>	<p>The TSC-IW rapid measuring instrument can quickly measure the volumetric moisture content and temperature of soil and porous media. The instrument has multiple functions, including storage, calculation of average values, viewing of historical data, and automatic recording and storage of data from 1 minute to 23:59 minutes. And the data curve can be viewed on the upper computer, and the data can also be exported and stored as an Excel spreadsheet file.</p>




SOIL MOISTURE SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	Soil conductivity sensor	Soil conductivity: Standard range 0~20mS/cm (can be customized to 0~10mS/cm, 0~5mS/cm, etc.), accuracy $\pm 2\%$
	Soil salinity sensor	Soil salinity: Standard range of 0~0.15mol/L (customizable 0~0.75mol/L, 0~0.05mol/L, etc.), accuracy $\pm 2\%$
	TDR-5 Soil temperature and humidity sensor	Soil temperature: Range -30~70 °C, accuracy ± 0.2 °C Soil volumetric moisture content: Within the range of 0-100% (m ³ /m ³) and 0-50% (m ³ /m ³), the accuracy is $\pm 2\%$ (m ³ /m ³)




SOIL MOISTURE SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	<p>TDR-4 Soil moisture sensor</p>	<p>Soil volumetric moisture content: Ranging from 0 to 100% (m^3/m^3), within the range of 0 to 50% (m^3/m^3), with an accuracy of $\pm 3\%$ (m^3/m^3)</p>

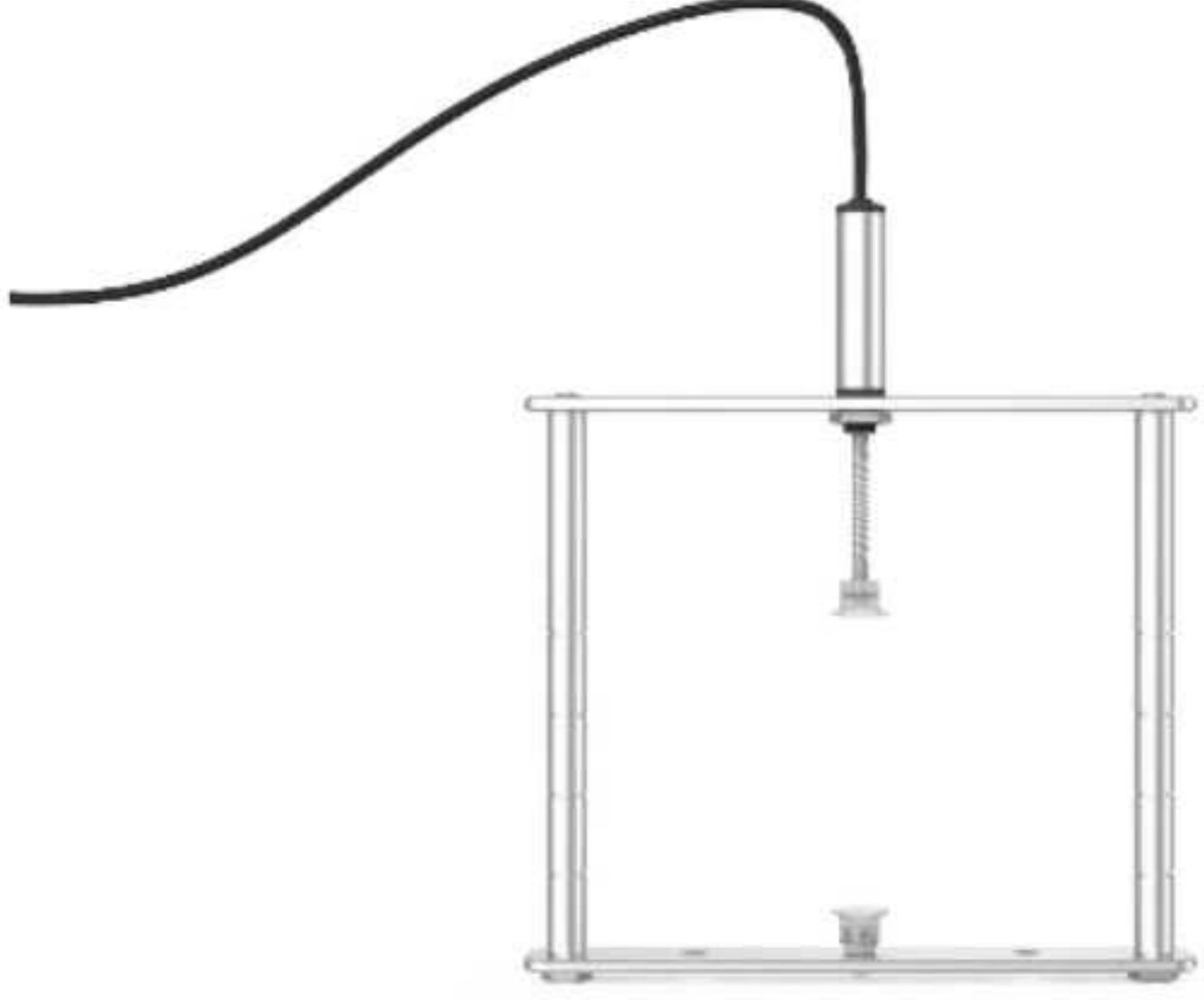


WATER MONITORING SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	<p>PH14A Water pH sensor</p>	<p>Soil pH value: Range 0~14, accuracy ± 0.02 (pH 4~9)</p>
	<p>Liquid conductivity sensor</p>	<p>Conductivity: Standard range of 1-20mS/cm (can be customized to 10.00 μ S~500.0mS), accuracy $\pm 2\%$</p>
	<p>Redox potential sensor</p>	<p>Redox potential: Range -2000mV~2000mV, accuracy ± 10mV</p>


WATER MONITORING SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	<p>T1 Water temperature sensor</p>	<p>Temperature of soil/air/solution/flame/boiler: Accuracy $\pm 0.2\text{ }^{\circ}\text{C}$</p>
	<p>Liquid level sensor</p>	<p>Liquid level: Range 0~1~200m</p>
	<p>Multi functional water quality rapid testing instrument</p>	<p>The multifunctional water quality rapid measuring instrument can quickly measure the pH value, liquid level, conductivity, and ORP of water bodies. The instrument has multiple functions, including storing, calculating average values, viewing historical data, and automatically recording and storing data from 1 minute to 23:59. And the data curve can be viewed on the upper computer, and the data can also be exported and stored as an Excel spreadsheet file.</p>


PLANT SENSORS

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	Fruit growth sensor	Fruit growth: optional range from 0 to 20/100mm, measurement range diameter less than 123mm, resolution $\pm 0.001\text{mm}$
	Stem growth sensor	Stem growth rate: Range 0~20/50/100mm optional, measurement range diameter less than 126mm, resolution $\pm 0.001\text{mm}$
	Leaf temperature and humidity sensor	Leaf surface temperature: Range $-40\sim 80\text{ }^{\circ}\text{C}$, accuracy $\pm 0.5\text{ }^{\circ}\text{C}$ Leaf surface humidity: Range 0~100% (m^3/m^3), accuracy $\pm 5\%$


GAS MONITORING SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	Ammonia sensor	Gas concentration: Range 0~10/20/50/100/200/500/1000/2000/5000ppm
	Hydrogen sulfide sensor	Gas concentration: Range 0~10/20/50/100/200/500/1000/2000/5000/10000 ppm
	Oxygen Sensor	Gas concentration: Range 1~25% Vol

GAS MONITORING SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	Carbon monoxide sensor	Gas concentration: Range 0~20/50/100/200/500/1000/2000/ 3000/5000ppm
	Sulfur dioxide sensor	Gas concentration: Range 0~10/20/100/200/500/1000/2000/5000ppm
	Methane sensor	Gas concentration: Range 0~100% LEL

GAS MONITORING SERIES

PRODUCT IMAGES	NAME	TECHNICAL PARAMETER
	Ethylene sensor	Gas concentration: Range 0~100/1000/2000/3000ppm