



Smart Environment and Agriculture Monitoring

Live comfortably · Grow steadily



Why is Environmental Monitoring Crucial in Business?

- Fulfill duty to reduce environmental pollution
- Reach environmental standards for efficient operation
- Protect the surrounding environment and nearby residents

CO Sensor Application

Mine

CO sensor is essential for the mining industry. To protect miners from potential risks and fatal accidents, CO sensor detects CO level, providing a safer working environment for miners.



Underground Parking Lot

With poor ventilation, CO filled in underground parking lot could harm your health. CO sensor can help you to detect carbon monoxide and automatically activate ventilation system once the CO level exceeds the standard amount.

Kitchen

Fuel-burning appliances could produce carbon monoxide and other poisonous gas. To ensure workers' safety, CO sensor and gas sensor help you to detect the amount of toxic gas and sound the alarm as the level exceeds the standard.



Sensor	Measurement range	Accuracy	Resolution
CO	0-2000ppm	< ±3% (@25°C)	0.5ppm

	R72601	RA0701Y	R718PA1
Model			
Application	Outdoor	Outdoor	Indoor
Power	Solar Panel+ 18650*3	DC 12V	DC 12V
Sensor	CO (carbon monoxide)		
CO Measuring Range	0 to 2000ppm		

CO₂ Concentration Monitoring



RA0715



R718UBD1

CO₂ and Temperature / Humidity Sensor

It ensures a pleasant environment by monitoring temperature, humidity, and the amount of CO₂ at crowded places, such as airports, schools, or malls.



PM 2.5 Monitoring



RA0716



R72616

PM 2.5 and Temperature / Humidity Sensor

Dust and PM 2.5 could imperil human health, shorten machine life span, and even cause an explosion. PM 2.5 and temperature/humidity sensor ensures a safer working environment for cement factories, construction sites, and mines by detecting dust condensation, temperature, and humidity.



Agriculture Monitoring

Agriculture monitoring allows you to remotely know the state of crops, provide a suitable habitat, and increase crop yields. To enhance effective management for crops, we offer you devices for agriculture and disaster monitoring, soil monitoring, and aquaculture water quality monitoring.



Agriculture and Disaster Monitoring

CO₂ and Temperature / Humidity Sensor

As one of the primary elements for photosynthesis, the condensation of CO₂ could greatly affect plant growth. CO₂ and temperature/humidity sensor helps you to monitor the CO₂ level, develop better crop plans, and maintain stable crop yields.



R72615

Wind Speed and Direction Sensor

Wind has double-edged effects on crops. It helps plants pollinate but also causes crops lodging. To improve crop yields, wind speed and direction monitoring plays a crucial role.



R72630

Soil Monitoring



R718PB15



Soil Moisture Sensor

Excessive water contents in soil could have negative impacts on plants.

To create a suitable habitat, soil moisture sensor provides data for you to easily understand the current status of the soil.

NPK Sensor

Nitrogen (N), phosphorus (P), and potassium (K) affect the quality and yields of crops.

To improve soil fertility, NPK sensor provides precise data and tells you when to fertilize your crops.



R72632A

Sensor	Measurement range	Accuracy	Resolution
Soil Moisture	0-100%VWC	±3%VWC	0.1%VWC
Soil NPK	0-1999 mg/kg	±2% F.s	

	R718PB15	R718PB15A	R72632A	R72632A01
Model				
Application	Indoor	Indoor / Outdoor (Waterproof Housing)	Indoor / Outdoor	Indoor / Outdoor
Power	2 x 3.6V ER14505 lithium batteries	2 x 3.6V ER14505 lithium batteries	2 x 3.6V ER34615 lithium batteries	8 x 3.6V ER14505 lithium batteries
Sensor	Soil Moisture/ Temperature/ Electrical Conductivity	Soil Moisture/ Temperature/ Electrical Conductivity Sensor with a Waterproof Housing	Soil NPK	Soil NPK
Measuring Range	Soil Moisture: 0 to 100%	Soil Moisture: 0 to 100%	0-1999 mg/kg	0-1999 mg / kg

Aquaculture Water Quality Monitoring

PH Sensor

Extreme PH values could deteriorate aquaculture water quality. To improve yields and quality, the PH sensor detects PH level and helps you to achieve better water quality management.

R718PA8




Turbidity Sensor

Cloudy water could put species in danger. To raise survival rate, the turbidity sensor monitors water turbidity and helps you know when to change water.



R718PA10



Sensor	Measurement range	Accuracy	Resolution
PH	0-14PH	±0.01PH	

	R72608	R718PA8
Model		
Application	Outdoor	Indoor
Power	Solar Panel+ 18650*3	DC 12V
Sensor	PH	
PH Measuring Range	0~14 PH	

Sensor	Measurement range	Accuracy	Resolution
Turbidity	0 ~ 1000NT	±5% or ±3NTU	0.1NTU /0.1°C

	R72610	R718PA10
Model		
Application	Outdoor	Indoor
Power	Solar Panel+ 18650*3	DC 12V
Sensor	Turbidity	
Turbidity Measuring Range	0.1~1000 NTU	

Liquid Level Monitoring



R718PA11



R72611





RA0711

Liquid Level Sensor

The liquid level sensor detects the amount of water in a container, tank, or river and activates the alarm when the water level is above or below the standard.

Sensor	Measurement range	Accuracy
Water Level	10m (cable length: 12m)	0.25%FS (typical value)

Model	R72611	R718PA11
		
Application	Outdoor	Indoor
Power	Solar Panel+ 18650*3	DC 12V
Sensor	Water Level	
Measuring Range	10m (Other range customizable)	

You May Also Like

Model	Description
RA0715	CO2 + Temperature & Humidity Sensor (DC-powered)
RA0716	Wireless PM2.5 + Temperature & Humidity Sensor (DC-powered)
RA0723	Wireless Outdoor PM2.5 + Noise + Temperature & Humidity Sensor (DC-powered)
RA0724	Wireless Outdoor Noise + Temperature & Humidity Sensor (DC-powered)
RA07W	Wireless Water Leak Detection and Location Sensor (DC-powered)

Model	Description
RA0701Y	Wireless CO Sensor (DC-powered)
RA0708Y	Wireless PH Sensor (DC-powered)
RA0711Y	Wireless Liquid Level Sensor (DC-powered)
RA0715Y	CO2 + Temperature & Humidity Sensor(DC-powered)
RA0716Y	Wireless PM2.5 + Temperature & Humidity Sensor (DC-powered)
RA0717Y	Wireless Wind speed + Wind direction + Air pressure + Temperature & Humidity Sensor
RA0723Y	Wireless Outdoor PM2.5 + Noise + Temperature & Humidity Sensor (DC-powered)
RA0724Y	Wireless Outdoor Noise + Temperature & Humidity Sensor (DC-powered)

Model	Description
R72608	Wireless PH Sensor (Solar-powered)
R72610	Wireless Turbidity Sensor (Solar-powered)
R72611	Wireless Liquid Level Sensor (Solar-powered)
R72613	Wireless Soil Moisture Sensor (Solar-powered)
R72615	Wireless Outdoor CO2 + Temperature & Humidity Sensor (Solar-powered)
R72616	Wireless Outdoor PM2.5 + Temperature & Humidity Sensor (Solar-powered)
R72623	Wireless Outdoor PM2.5 + Noise + Temperature & Humidity Sensor (Solar-powered)
R72624	Wireless Outdoor Noise + Temperature & Humidity Sensor (Solar-powered)
R72630	Wireless Wind speed + Wind direction + Air pressure + Temperature & Humidity Sensor(Solar-powered)

Model	Description
R718PA1	Wireless CO Sensor(12V DC-powered)
R718PA2	Wireless NO Sensor(12V DC-powered)
R718PA3	Wireless O3 Sensor (12V DC-powered)
R718PA4	Wireless H2S sensor(12V DC-powered)
R718PA5	Wireless NO2 Sensor(12V DC-powered)
R718PA6	Wireless SO2 Sensor(12V DC-powered)
R718PA7	Wireless Noise Sensor (12V DC-powered)
R718PA8	Wireless PH Sensor (12V DC-powered)
R718PA9	Wireless ORP Sensor (12V DC-powered)
R718PA10	Wireless Turbidity Sensor (12V DC-powered)
R718PA11	Wireless Liquid Level Sensor (12V DC-powered)
R718PA12	Wireless Seawater Sensor (12V DC-powered)
R718PA15	Wireless CO2 Sensor (12V DC-powered)
R718PA16	Wireless Wind Speed Sensor
R718PA17	Wireless Wind Direction Sensor (12V DC-powered)
R718PA18	Wireless Atmospheric Pressure Sensor(12V DC-powered)
R718PA22	Wireless Bottom-Mounted Ultrasonic Liquid Level Sensor

Model	Description
R718UBB	Wireless CO2 Sensor
R718UBB1	Wireless CO2 + Temperature & Humidity Sensor
R718UBB12	Wireless CO2 + Temperature & Humidity + Vibration Sensor
R718UBB123	Wireless CO2 + Temperature & Humidity + Vibration + Air Pressure Sensor
R718UBB23	Wireless CO2 + Vibration + Air Pressure Sensor
R718UBB25	Wireless CO2 + Vibration + Light Sensor
R718UBB125	Wireless CO2 + Temperature & Humidity + Vibration + Light Sensor
R718UBB235	Wireless CO2 + Vibration + Air Pressure + Light Sensor
R718UBB1235	Wireless CO2 + Temperature & Humidity + Vibration + Air Pressure + Light Sensor