



# Technical Data Sheet

(Devices)



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## CO2 Detector

### Features:



- It is used to detect the concentration of some certain gas such as CO2 and other harmful gas and will send its current data to the system to inform users about the air quality.
- It can be linked with other devices to make joint performance, such as open/close windows, doors, or turn/off HVAC.
- based on Zigbee wireless technology
- adopts high-precision CO2 sensor to collect real-time and accurate data
- low energy consumption
- sturdy and durable since the shell is made of high shock-resistance material

### Properties/Specifications:

#### Electrical Parameter

Communication Mode	IEEE 802.15.4 (Zigbee/SmartRoom)
Antenna Type	Internal Antenna
Power Parameter	110V-240V AC, 50/60Hz
Detection Concentration	400-2000PPM
Alarm Trigger Concentration	1200PPM
Standby Power Consumption	1.1W
Communication Distance	100m (visible)

#### Structural Parameter

Dimension (Diameter x Thickness)	98x46 (mm)
Material & Color	PC, White
Net Weight	60 (g)
Installation Method	Ceiling/Wall Mounted
Flame Retardant Rating	UL94 V-0
Working Temperature	-10°C ~+45°C
Working Humidity	≤ 95%RH (Non-condensing)

## Dust Detector



### Features:

- Detects dust concentration of the air as well as monitor air quality and distinguish the particulate concentration of different dusts
- It can be linked to an air purifier to provide healthy air quality
- Zigbee device type: repeater
- stable operation, accurate data monitor
- ceiling mounted design, can save space as much as possible

### Properties/Specifications:

#### Electrical Parameter

Telecommunication Method	IEEE 802.15.4 (Zigbee/SmartRoom)
Telecommunication Distance	100m(visible)
Power Supply	220V
Battery Type	CR2 battery
Standby Power Consumption	0.25W

#### Structural Parameter

Color	White
Weight	118 g
Diameter	98mm
Thickness	77.5mm
Working Temperature	-10°C~+55°C
Working Humidity	≤ 95%RH (non-condensing)
Installation method	Base-fixed

## Temperature and Humidity Sensor

### Features:



- Monitors the temperature and moisture in the area; and sends immediate alerts if the climate fluctuates to unsafe or undesirable levels;
- low power consumption, energy saving;
- wireless, easy to install;
- features a compact size, weather-resistant design and integrated mounting options.

### Properties/Specifications:

#### Electrical Parameter

Communication Protocol	IEEE 802.15.4 (Zigbee/HA1.2)
Antenna Type	Internal Antenna
Power Parameter	DC 3V
Standby Current	< 2μA
Battery Type	CR2*1
Detection Power Consumption	<10mA
Communication Distance	100m (Depend on the specific situation)

#### Structural Parameter

Overall Size (Diameter*Height, mm)	64*32(mm)
Material & Color	PC, White
Flame Retardant Rating	UL94 V-2
Installation Method	Base Fixed
Measuring Humidity Range/Accuracy	5~95%RH/+4.5
Measuring Temperature Range/Accuracy	-10°C~0°C /+ 0.5°C
	0°C ~+70°C /+1°C
	+60C~+70°C /+1°C
Net Weight	39g
Storage Temperature	-20°C ~+70°C

## Water Leakage Sensor

### Overview:

- designed for early water leakage detection to prevent serious water damage that can cause stressful and expensive repairs and damages.
- Its Zigbee wireless protocol lets the Water Leak Detector integrate with other Zigbee based devices like water valve for energy management and home security.



### Features:

- Communication Mode: IEEE 802.15.4 (ZigBee/SmartRoom).
- Wireless design, small size, easy to install
- Equipped with high-sensitive water contact probe
- Real-time alarm when detected a leak

### Properties/Specifications:

#### Electrical Parameter

Communication Mode	IEEE 802.15.4 (Zigbee/SmartRoom)
Antenna Type	Internal Antenna
Power Parameter	DC 3V
Standby Current	$\leq 2\mu\text{A}$
Power Supply	CR2*1
Water Level	$\geq 1\text{mm}$

#### Structural Parameter

Panel Size (Diameter*Thickness)	69x29mm
Material & Color	PC, White
Flame Retardant Rating	UL94 V-2
Working Temperature	$-10^{\circ}\text{C} \sim +45^{\circ}\text{C}$
Working Humidity	$\leq 95\% \text{RH}$ (Noncondensing)
Mounting Type	Mobile
Net Weight (g)	47g
Storage Temperature	$-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Gross Weight	155g

## Light Sensor

### Overview:



- designed to monitor indoor illumination
- Supports linkage control with other devices where there is a requirement for lighting.

### Features:

- Communication Mode: IEEE 802.15.4 (ZigBee/SmartRoom)
- Wireless design, small size, easy to install
- detects indoor light intensity in real-time
- Low power consumption, energy saving
- Advanced circuit and control chip can keep the device linked and prevent it from dropping
- Group linkage with relevant devices like smart switches or curtain motor for scene control
- Stylish and exquisite design

### Properties/Specifications:

Power Parameter	DC 3V, CR2*1
Standby Current	<2 $\mu$ A
Communication Distance	100m (depend on specific environmental conditions)
Anti-visible Light	>= 8000LUX
Effective Light Receiving Angle	+=-60°
Light Range	1-65535 lx
Installation Method	Portable Type, Base-fixed
Working Temperature/Humidity	-10°C~+45°C/<=95%RH (noncondensing)
Material & Color	PC, White
Dimension (diameter*thickness)	64*36 (mm)
Net Weight	50g
Gross Weight	163g

## Switch (One Gang)

### Overview:

The wall switch can turn on or off the lights not only by flicking the switch on the wall, but also through the management system which can serves as the remote control.



### Features:

- Communication Mode: IEEE 802.15.4 (ZigBee/SmartRoom)
- It can be linked with other devices like Motion Detector, Light Sensor
- Supports time setting
- Unique live line technology, easy wiring

### Properties/Specifications:

#### Electrical Parameter

Communication Mode	IEEE 802.15.4 (Zigbee/SmartRoom)
Antenna Configuration	Internal Antenna
Power Parameter	100-240V AC, 50/60Hz
Standby Power Consumption	<=0.03W
Total Maximum Resistive Load	2000W (Incandescent Lamp/Halogen Lamp)
Total Maximum Inductive/Capacitive Load	1400W (Energy Saving Samp/Fluorescent/LED)

Note: Total Maximum Load: 200V AC input voltage.

#### Structural Parameter

Overall Dimension (Length x Width x Height)	86x87x38 (mm)
Material & Color	Tempering Glass, White
Flame Retardant Rating	UL94 V-0
Working Temperature	-10°C~+45°C
Working Humidity	<=95%RH (Noncondensing)



### Switch (Two Gang)



**Features:**

- Local and remote control operation
- Can be connected with several remote devices to have one switch that can control several devices or several switches that control one device
- Can be operated easily through an elegant and simple App to control timing, scene, settings, etc
- Adopts the international standard box design (86mm); this switch can be installed to the wall standard inner box and the normal switch can be replaced directly.
- Exquisite design; fits to all decoration styles

**Properties/Specifications:**

**Electrical Parameter**

Communication Mode	IEEE 802.15.4 (Zigbee/SmartRoom)
Antenna Configuration	Internal Antenna
Power Parameter	100-240V AC, 50/60Hz
Standby Power Consumption	<=0.03W
Total Maximum Resistive Load	2000W (Incandescent Lamp/Halogen Lamp)
Total Maximum Inductive/Capacitive Load	1400W (Energy Saving Lamp/Fluorescent/LED)

Note: Total Maximum Load: 200V AC input voltage.

**Structural Parameter**

Overall Dimension (Length x Width x Height)	86x87x38 (mm)
Material & Color	Tempering Glass, White
Flame Retardant Rating	UL94 V-0
Working Temperature	-10 C~+45 C
Working Humidity	<=95%RH (Noncondensing)

## Switch (Three Gang)

### Features:

- Local and remote control operation
- Can be connected with several remote devices to have one switch that can control several devices or several switches that control one device
- Can be operated easily through an elegant and simple App to control timing, scene, settings, etc
- Adopts the international standard box design (86mm); this switch can be installed to the wall standard inner box and the normal switch can be replaced directly.
- Exquisite design; fits to all decoration styles



### Properties/Specifications:

#### Electrical Parameter

Communication Mode	IEEE 802.15.4 (Zigbee/SmartRoom)
Antenna Configuration	Internal Antenna
Power Parameter	100-240V AC, 50/60Hz
Standby Power Consumption	<=0.03W
Total Maximum Resistive Load	2000W (Incandescent Lamp/Halogen Lamp)
Total Maximum Inductive/Capacitive Load	1400W (Energy Saving Lamp/Fluorescent/LED)

Note: The Total Maximum Load above is on the premise of 200V AC input voltage.

#### Structural Parameter

Overall Dimension (Length x Width x Height)	86x87x38 (mm)
Material & Color	Tempering Glass, White
Flame Retardant Rating	UL94 V-0
Working Temperature	-10 C~+45 C
Working Humidity	<=95%RH (Noncondensing)

## Curtain Motor and Track

### Overview:

- a smart device that is mainly used for controlling curtain
- It supports remote/local control, time setting, scene management and linkage control by closing or opening the curtain



### Features:

- User can open or close the curtain through the management system
- Can be linked with other devices to open/close curtain
- noiseless design; stops when it facing with obstacles on the curtain track
- device type: repeater
- Support automatic opening function, just with a gentle drag, the curtain will open or close completely on the appointed direction

### Properties/Specifications:

Communication Mode	IEEE 802.15.4 (Zigbee/SmartRoom)
Power Parameter	AC 220V±10%, 50/60HZ
Standby Power Consumption	≤ 0.1W
Input Power	75W
Load Capacity	100KG
Rotate Speed	112R/Min
Opening and Closing Speed	20cm/s
Rated Current	0.34A
Installation Method	Clamping Hold
Working Temperature/Humidity	-10°C~+45°C / ≤ 96%RH (non-condensing)
Material & Color	PC, White
Dimensions (L*W*H)	250*53*71 (MM)
Net Weight	1100 g
Gross Weight	1240 g
Flame Retardant Rating	UL94 V-0

## Electric Meter



### Features:

- Single phase metering 4 DIN modules, Standard DIN rail format (DIN43880)
- Date memory recording 1-12 months energy consumption, MD and MD's current time
- LCD Display, 6 integers 2 decimal, meter display when power fails
- Internal transformer
- Direct metering up to 100A
- RS485 communication port, Modbus protocol

## Embedded Switch



### Features:

- Embedded design, transform traditional wall switches into smart ones;
- Smart control of the lightings;
- Support local and remote check and control;
- Support timing setting, linkage control, and scene management.

### Properties/Specifications:

Communication Mode	IEEE 802.15.4 (Zigbee/SmartRoom)
Power Parameter	100-250V AC, 50/60Hz
Standby Power Consumption	<=0.75W
Rated Current	8A
Maximum Resistance Load of Total Lines	1760W (Rated Voltage of 220V)
Maximum Inductive/Capacitive Load of Total Lines	1000W (Rated Voltage of 220V)
Type	Embedded Switch (8A)
Installation Method	Wall-mounted Type
Working Temperature/Humidity	-10°C~+45°C / <=95%RH (Noncondensing)
Dimensions	43*37*18 (MM)

## Gas Manipulator

### Features:



- Used to turn on/off flammable gas valve automatically when there is gas leakage
- This automatic gas valve controller could connect with a gas sensor and alarm which can detect poisonous gas
- When the gas detector detects that the gas concentration is higher than the default value, the gas manipulator will cut off gas supply automatically to safeguard your life and property.
- Simple installation without wiring
- Ensures the air safety and security

### Properties/Specifications:

#### Electrical Parameter

Communication Mode	IEEE 802.15.4 (Zigbee/SmartRoom)
Communication Distance	100m (visible)
Power Super	DC 12V

#### Structural Parameter

Color	White
Working Temperature	-10°C~+45°C

## Water Valve

### Features:



- used to handle and control water
- the design of a valve may determine how much water flow it allows or whether it should be used for adjusting flow rather than simply turning the water on or off
- Communication Mode: IEEE 802.15.4 (ZigBee/SmartRoom)

### Properties/Specifications:

Power Parameter	6V, AA battery*4
Standby Current	<40μA
Water Pressure	0.02~0.8Mpa
Water Flow	0.02Mpa≥3L/min; 0.1Mpa≥12L/min;0.8pa≥32L/min
Installation Method	Floor-Mounted Type
Working Temperature/Humidity	-10°C~+45°C/<=95%RH (noncondensing)
Installation Method	Portable Type, Base-fixed
Material & Color	PC+ABS, Gray
Dimension (L*W*H)	76*108*87 (mm)
Net Weight	575g
Gross Weight	900g

## Gateway

### Features:



- The gateway adopts standard Ethernet Port to connect smart home system to the LAN or Internet and ensures safe and reliable wireless communication data transmission.
- serves as the connection point between sensors/devices and the server
- It supports various type of IEC standard power adapters and can be applied to more than 150 countries and regions.
- energy saving and low power consumption
- Can easily control many devices based on ZigBee protocol
- Exquisite design, fit to all decoration styles
- Made of high shock-resistance and heat-resistance material, sturdy and durable
- AES128-bit encryption

### Properties/Specifications:

#### Electrical Parameter

Communication Protocol	IEEE 802.15.4 (Zigbee/SmartRoom), IEEE 802.11 B/G/N
Antenna Type	Dual-Internal Antenna
Power Parameter	DC 5V 1A AC/DC Adapter, DC 5V 2A AC/DC Adapter (with 3G)
Overall Power Consumption	≤ 3.5W (without 3G), ≤ 7.5W (with 3G)
Cable Access Mode	10/100M Adaptive Ethernet WAN port
	10/100M Adaptive Ethernet LAN port
Wireless Access Mode	WiFi, 3G (WCDMA)
Wired Access Mode	10/100M Auto-Negotiation Ethernet WAN/LAN Interface
Communication Distance	100m (Visible)
Working Frequency	IEEE 802.15.4 2405 ~ 2480MHz
	IEEE 802.11 b/g/n 2412 ~ 2472MHz
Transmission Speed	IEEE 802.15.4 Max. 250Kbps
	IEEE 802.11 b/g/n Max. 150Mbps
ROM Type and Capacity	SPI FLASH, 16MB
Memory Type and Capacity	DDR2, 64MB
Devices that can connect	Up to 200 devices





Structural Parameter

Dimension (L*W*H)	74.5x68.5x227 (mm)
Material & Color	PC+ABS, Black
Flame Retardant Rating	UL94 V-2
Working Temperature	-10°C~+45°C
Working Humidity	≤ 95%RH (Non-condensing)
Installation Method	Mobile
Net Weight (g)	465g
Storage Temperature	-20°C~+60°C

## IR Transmitter



### Features:

- Embedded with IR, ZigBee/SmartRoom receiving and dispatching module
- It can replace remote controllers to control various infrared appliances such as air condition, television, motor curtain, etc.
- Enables you to conveniently control infrared devices
- Supports time setting, linkage control, scene management

### Properties/Specifications:

Communication Mode	IEEE 802.15.4 (Zigbee/SmartRoom)
Power Parameter	DC 3V, CR2 Battery*1
Standby Power Consumption	7 $\mu$ A
Control Distance	5M
Control Angle	45
Installation Method	Portable Type, Base-Fixed
Working Temperature/Humidity	-10C~+45C/<=95%RH (Noncondensing)
Material & Color	PC, White
Dimensions (Diameter*Thickness)	64*32 (MM)

### Wall Socket



#### Features:

- A place in a wall where you can connect electrical equipment to the electricity supply;
- Can be installed directly to standard wall switch;
- No wiring, easy to install;
- After installation, connected devices can easily be controlled with the gateway.

#### Properties/Specifications:

Power Parameter	250V AC, 50Hz
Max Rated Current	13A
Material & Color	PC, White
Flame Retardant Rating	UL94 V-0
Maximum Resistance Load	2500W
Maximum Inductive & Capacitive Load	1500W

## Flammable Gas Detector



### Overview:

- It can detect the concentration of flammable gas in the air. When the concentration reaches the preset value, the detector will send out alarm signal. Moreover, the detector is equipped with temperature sensor inside for detecting the temperature in the air. It can bind with alarm devices and send out wireless signals to activate the alarm when it is triggered.

### Features:

- Can be used together with a variety of alarm equipment
- Patent design, compact size
- Small volume, light weight, and easy to use
- Reliable operation, stable performance, low rate of false positives
- Strong anti-interference ability, can automatically adjust the sensitivity
- Has self-diagnosis function

### Properties/Specifications:

Power Supply	110V-240V AC, 50/60Hz
Standby Power Consumption	<= 0.7W
Maximum Power Consumption	3W
Alarm Trigger Concentration	> 5000 PPM
Diameter	98mm
Thickness	45mm
Color	White
Material	Plastic
Weight	125g

## Motion Detector

### Features:



- Supports remote monitoring and control
- Alarms when a motion is detected in the area; can be connected with other related security devices for multi-defense
- Rapid, anti-interference and low false alarm rate
- Sensitivity in environment and in change of temperature
- Easy to adjust detecting angle; convenient and wide detecting range
- Strong and durable material; high-impact and high-temperature resistant

### Properties/Specifications:

#### Electrical Parameter

Communication Mode	IEEE 802.15.4 (Zigbee/HA1.2)
Antenna Type	Internal Antenna
Power Parameter	DC 3V
Standby Current	15μA
Battery Type	CR2*1
Detection Range	Ellipse (Major Axis: 4m, Minor Axis: 3.5m)
Detection Sensitivity	Once
Detection Speed	0.2~3.5m/s

#### Structural Parameter

Panel Size (Diameter*Thickness)	64x38 (mm)
Material & Color	PC, White
Flame Retardant Rating	UL94 V-2
Working Temperature	-10°C~+45°C
Working Humidity	<=95%RH (Noncondensing)
Installation Method	Base-Fixed
Net Weight (g)	50 (g)
Storage Temperature	-20°C ~+60°C
Installation Height Range	2.3-4 (m)

## Smart Lock

### Overview:



- supports multiple unlocking methods: (1) Remote method: smart phone/NFC/Remote Controller (2) Local method such as passwords/cards/keys; DIY door open method: user scan set double safe protection – door open with both fingerprint and passwords
- supports touch wake and illegal operation locked to ensure security
- Super C lock cylinder, AN2 stainless steel lock bolt
- Ultra-low power consumption, long endurance
- has a traditional key unlocking feature

### Properties/Specifications:

Power Parameter	DC 9V
Battery Type	8*AA Battery (4 for backup)
Standby Current	<80μA
Emergency Power Supply	9V Cell, USB TYPE C
Unlocking Method	Fingerprint, Password, NFC, App, Key
Image Quality	720P
Installation Method	Fix by screws
Working Temperature/Humidity	-20°C~+50°C/<=95%RH (noncondensing)
Material & Color	Zinc Alloy+ABS, Silver
Packing Dimensions (L*W*H)	440*333*108 (mm)
Net Weight	6420g
Gross Weight	6700g

## Smoke Detector



### Features:

- Detects smoke concentration in the air and send alarm message in real time
- Reliable operation, stable performance and low false alarm rate
- Strong anti-interference ability and automatic sensitivity adjustment
- Patent design, compact size, light weight and elegant appearance

### Properties/Specifications:

#### Electrical Parameter

Communication Mode	IEEE 802.15.4 (Zigbee/SmartRoom)
Antenna Configuration	Internal Antenna
Power Parameter	DC 3V
Standby Current	< 10 $\mu$ A
Battery Type	CR2*1
Alarm Current	75mA
Alarm Decibel	70dB, 3m
Alarm Mode	Network Output/Sound and Light Alarm

#### Structural Parameter

Overall Size (D*T, mm)	98x43
Material	PC
Color	White
Net Weight (g)	120
Flame Retardant Rating	UL94 V-0
Working Temperature	-10 $^{\circ}$ C~+45 $^{\circ}$ C
Working Humidity	<=95%RH (noncondensing)
Storage Temperature	-20 $^{\circ}$ C ~+60 $^{\circ}$ C