ZELLER

ZELLER

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FC ISO9001 UL CE ETL RoHs

Committed to development and application of the "Internet of Things"

ZWAVE 𝗓 zigbee matter BACnet RS485 WiFi

01 Thermostat

02 Switch

03 Dimmer

04 Shutter Panel

05 Non-Neutral Switch

06 Sensor

07 Smart Plug

08 Customized Hardware

01

Thermostat

Zeller thermostats can be applied to control different heating/cooling system, such as: split AC, heating cable, heating film, water/electrical valve, boiler, fan coil, solar energy, controller, heat pump, air ventilation system etc. With various design and complete function, the device will satisfy different customer's need.

Battery-powered IR Thermostat IR2900-ZW

IR2900-ZW is compliant to Z-wave-to-IR Bridge to control split air conditioner by receiving Z-wave command and converting to Infrared command. It can control various brands and models of air conditioners all over the world combination with the comprehensive list of built-in and cloudstorage IR database.

• Power supply: rechargeable battery (1500mAH Lithium polymer battery)/5V USB Type-C charge
• Built-in temperature sensor for ambient temperature reading
• Quick matching with cellphone and support self-learning feature
• IR operating distance: Up to 10m
• Supported remote or local control with interaction interface
• Installation: magnet (with screws, 3M paste)/ tabletop placing
• Outcase: PC+ABS
• Dimension:105*105*15mm

Application 1

IR2900+Gateway(Zigbee/Z-Wave)+APP

Cloud server
air conditioner
IR
IR2900
Zwave/zigbee
gateway
APP
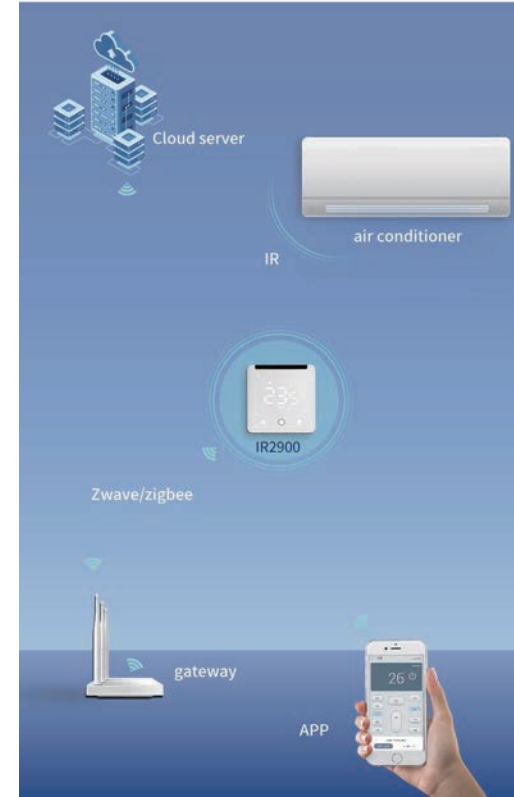
Application 2

IR2900+APP(WiFi)

Cloud server
air conditioner
IR
IR2900
APP
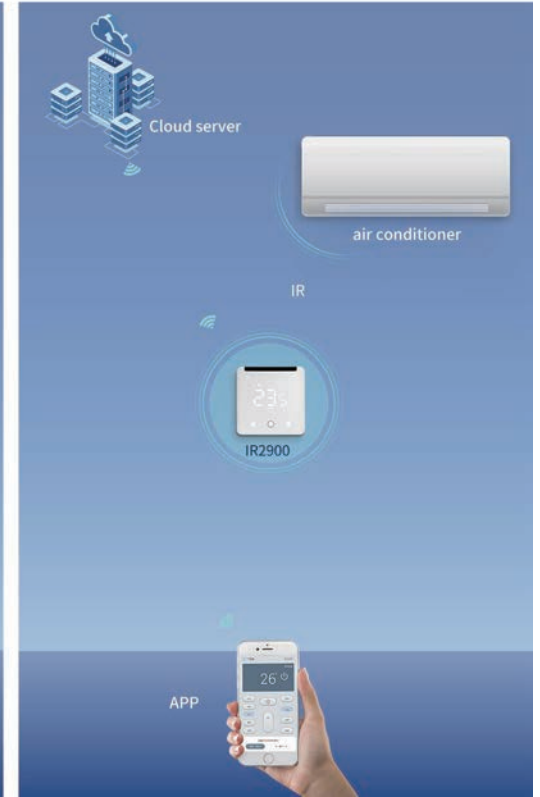
Heat Pump/ Regular AC Thermostat

Heat Pump/ Regular AC thermostat is used to control up to 3 stages heating and 2 stages cooling system with 8 types control system ranging from gas/fuel boiler, electric heating, water heating, heat pump etc., EM heat activation, adjustable compressor delay time and O/B changeover.

Controlling Type

Item	Description	Terminals need to be wired					
		G	Y1	Y2	W1	W2	O/B
0	Conventional cool only	●	●	○			
1	Conventional heat only	●			●	○	
2	Conventional heat & cool	●	●	○	●	○	
3	Cool in heat pump	●	●	○			○
4	One-stage heat in heat hump (optional:Aux)	●	●			○	○
5	Two-stage heat in heat hump (optional:Aux)	●	●	●		○	○
6	One-stage heat&cool in heat hump (optional:Aux)	●	●			○	●
7	Two-stage heat&cool in heat hump (optional:Aux)	●	●	●		○	●

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**Battery-powered
MH-4936**

- Applied to control regular AC or heat pump system
- Power supply: AC/DC24V / 4*AA dry battery
- Resistive load:<1A
- Self-consumption: <1W
- Temp. setting range:10~37℃(50~99°F)
- Outcase:tempered glass +PC+ABS

- Thermistor: NTC thermistor
- Wire connection: terminal
- Dimension:114*114*22mm
- Installation:60.3mm hole pitch
- Support S2 encryption and Smart Start function(optional)

**Battery-powered
MH-5900**

- Applied to control regular AC or heat pump system
- Power supply: AC/DC24V or 4*AAA dry battery
- Frameless display
- Resistive load:<1A
- Self-consumption: <1W

- Temp. setting range:10~37℃ (50~99 °F)
- Dimension:113*113*19mm
- Outcase:tempered glass +PC+ABS
- Support S2 encryption and Smart Start function (optional)

MH-F500

- Applied to control regular AC or heat pump system
- Power supply: AC24V
- 4.2″ LCD touch screen
- Resistive load:<1A
- Thermistor: NTC thermistor
- Temp. setting range:10-35℃ (50~95℉)
- Outcase:tempered glass + PC
- Dimension:100*100*30mm
- Installation:60mm or 82mm hole pitch
- 7days 4 time periods schedule
- Support S2 encryption and Smart Start function (optional)

MH-3928

- Applied to control regular AC or heat pump system
- Power supply: AC24V
- Display : 2.8″ TFT screen
- Support S2 encryption and Smart Start function (optional)
- Temperature accuracy : 0.1℃/1℉
- Working environment : -10-50℃
- Dimension : 105*105*20mm

Boiler Thermostat

Smart boiler thermostat is mainly applied for wall mounted boiler, water valve/ pump, under floor pipes, radiator heating systems, it can automatically detect the indoor temperature and display the relevant temperature value for boiler heating control. It also can automatically turn on/off the heating system according to the temperature difference.

Water Valve Control System
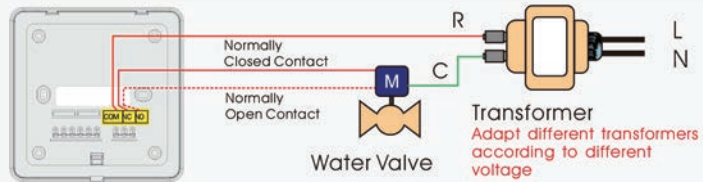
Boiler Control System

MH3901-Z

- Applied for boiler and valve control
- Power supply: AC/DC 24V
- Capacitive load: 0.5A
- Tempered glass with capacitive touch buttons
- Clear LED dot matrix display
- Casing material:tempered glass + PC alloy
- Temp. setting range:5-37℃
- Dimension:104*104*20mm
- Installation:60.3mm hole pitch

Battery-powered Boiler Thermostat
MH-4959

- Applied for boiler and valve control
- Power supply: AC/DC24V / 4*AA dry battery
- Resistive load:<1A
- Self-consumption: <2W
- Temp. setting range:5~37℃(41~98.6°F)
- Casing material:tempered glass +PC+ABS
- Thermistor: NTC thermistor
- Wire connection: terminal
- Dimension:114*114*22mm
- Installation:60.3mm hole pitch

MH5 Series Thermostat

Applied for different control systems like fan coil, water/electrical heating, boiler, radiant air conditioning, flesh air ventilation

- Temperature sensor: NTC 10K
- Temperature setting:5-37℃(41~99°F)
- Capacitive touch buttons
- Tempered glass panel, PC alloy enclosure
- Precise temperature calibration function
- Non-volatile memory, working state
- Easily steel frame back plate installation
- Dimension:86* 86*14mm
- Hole pitch:60-65mm(60 or 86 Standard junction box)

Scene1 Applied for 2 pipes fan coil of central air conditioning system + smart home hub (Zigbee/ Z-Wave)

Return Air
Air Supply
Fan Coil
Cool&Heat Valve
N
HIGH MED LOW
Backwater
Water supply
N
L
L N HI ME LO VO VO
·28s
Thermostat
Zigbee/Z-Wave Gateway
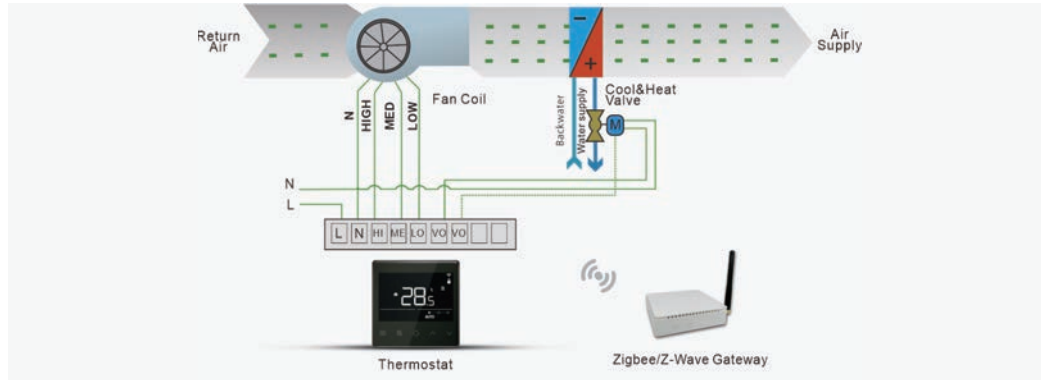
Scene 2 Applied for 4 pipes fan coil of central air conditioning system + smart home hub (Zigbee/ Z-Wave)

Return Air
Air Supply
Fan Coil
Cool Valve
Heat Valve
N
HIGH MED LOW
Backwater
Water supply
N
L
L N HI ME LO CO CC HO HC
·28s
Thermostat
Zigbee/Z-Wave Gateway
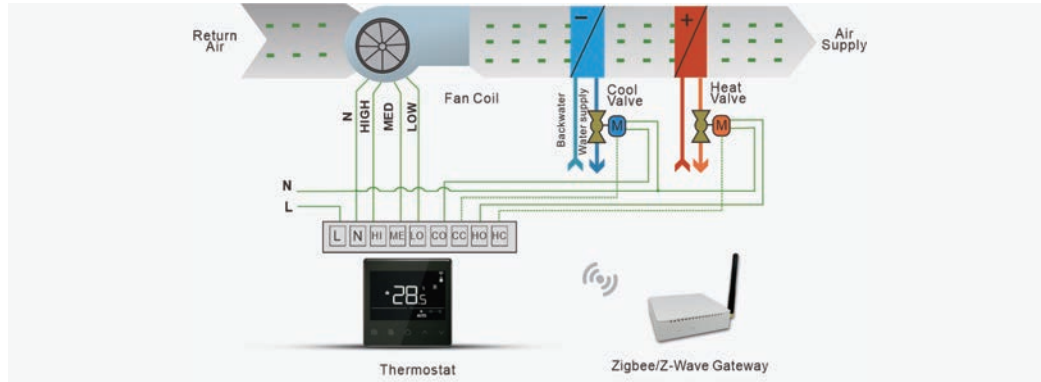
Scene 3 Capillary radiation air conditioning system with dew point monitoring Feature+smart home hub (Zigbee/ Z-Wave)

80° 45
Zigbee/Z-Wave
Capillary radiation
Manifold
Thermostat
Gateway
·26.5
Thermostat
Capillary radiation
Manifold
Circulating pump
Air-conditioning
Water tank
Make-up valve
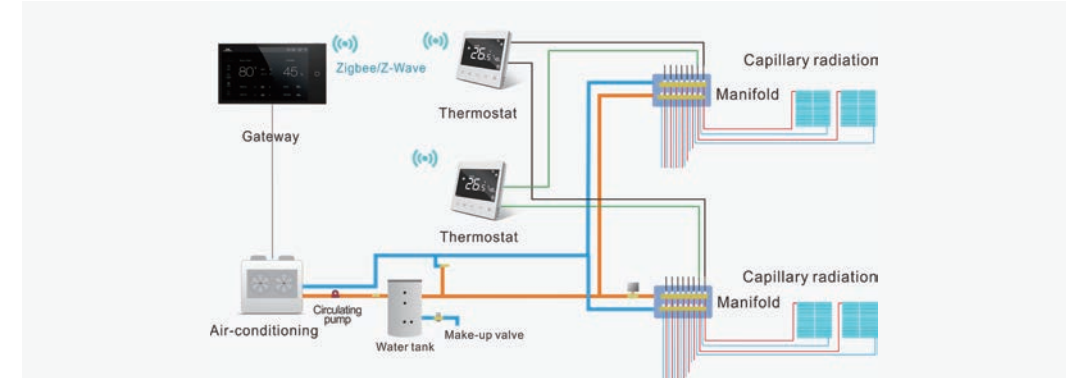
Scene 4 Fan coil of central AC system for cooling in summer and floor water heating system in winter+ smart home hub (Zigbee/ Z-Wave)

Zigbee/Z-Wave
Zigbee/Z-Wave
WiFi
·26.5
·26.5
80° 45
APP
Thermostat
valve
Thermostat
valve
Gateway
Fan coil
Fan coil
Manifold
Floor heating
air conditioner
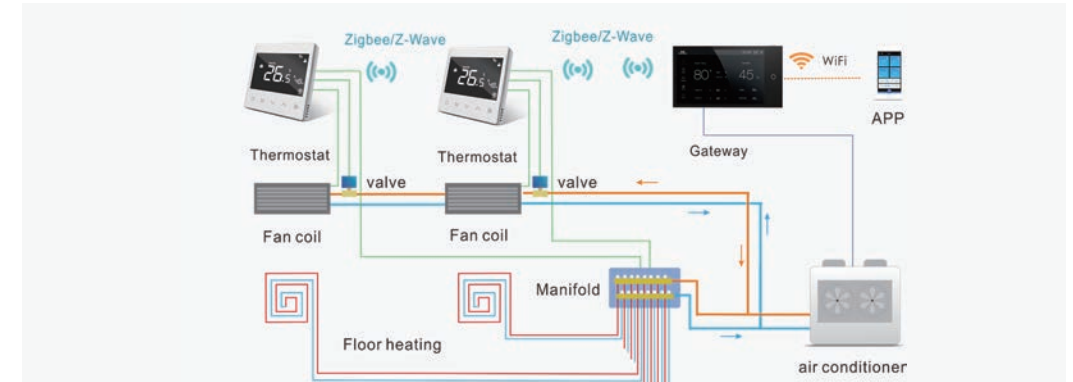
Thermostat MH5 Model Description

| General Model | Name | Model | Standard Specification | | Optional (● means optional ，N/A means not available) | | | | | Remark |
			Output Description	Humidity	External Temperature Sensor /Temp(T)	1-Load Dry Contact Input/Remote(R)	RS485(E)	Wireless Communication Type	Power Supply	
MH5	Fan Coil Thermostat (2-pipes)	MH5-2A	1) 3 speed AC fan 2) 1 three-wire valve (either used for heating or cooling)	●	●		●	●	■ WIFI(WI) (Optional) ■ Z-Wave(EU、AU、US)(Optional) ■ Zigbee(ZB) (Optional	■ AC220V(-)Standard ■ AC24V(Optional) ■ DC12V(Optional) ■ DC24V(Optional)	1) If power supply is not 220VAC, then it is passive output 2) 3 colors can be selected: Pearl WhiteAll in white(glass+frame+bottom shell) (default) Space Silver: Vacuum silver plated glass+ silver frame+ black bottom shell(customized) Crystal Black:All in black (glass+frame+bottom shell)(customized)
		MH5-2D	1) DC fan(3 level fan speed control using 0-10V) 2)1 three-wire valve (either used for heating or cooling)	●	●		●	●			
		MH5-2AD	1) 3 speed AC fan 2) 1 analog valve using 0-10V (either used for heating or cooling)	●	●		●	●			
	Fan Coil Thermostat (4-pipes)	MH5-4A	1) 3 speed AC fan 2) 2 three-wire valves (cooling valve+heating valve)	●	●		●	●			
		MH5-4D	1) DC fan(3 level fan speed control using 0-10V) 2) 2 three-wire valves (cooling valve+heating valve)	●	●		●	●			
	A Combined System Thermostat	MH5-TA	1) 3 speed AC fan 2) 2 three-wire valves (fan coil valve + water floor valve)	●	●		●	●			
	A Combined System Thermostat	MH5-TD	1) DC fan(3 level fan speed control using 0-10V) 2)2 three-wire valves (fan coil valve+ water floor valve)	●	●		●	●			
	Single Valve Dew Point Thermostat	MH5-M1	1) 1 three-wire water valve	standard	Temp(T) Standard:NTC10K B=3950 sensor, length 3m, stainless steel round head, high temperature line, tin rinse		●	●			
	Double Valves Dew Point Thermostat	MH5-M2	1) 2 three-wire water valve(ceiling valve+floor valve)	standard			●	●			
	Electrical Heating Thermostat	MH5-EH	1)control electrical heating device, max load: 16A	N/A	Temp(T) Standard:NTC10K B=3950 sensor, length 3m,plastic injection head	N/A		●			
	Water Heating Thermostat	MH5-WH	1) control water heating valve, heating actuator etc, active output, max load: 5A	N/A	●	N/A		●			
	Boiler Thermostat	MH5-BH	1) control wall-mounted boiler heating device,passive output, max load: 5A	N/A	●	N/A		●			

Fan Coil Thermostat
MH8

• Applied to control fan coil of central AC system (2 or 4 pipes)
• With Cooling, Heating, Ventilation modes
• Intelligent control of 3-speed/0-10V fan, on/off or 0-10V
modulating valve or other specific system
• Power supply: AC85-260V/24V
• Dimension:86* 86*42mm
• Hole pitch:60-65mm(86 Standard junction box)

Model:
MH8-FC (2-pipes)
MH8-FC4 (4-pipes)
MH8S-FC (2-pipes)
MH8SHV-FC (2-pipes)

Battery-powered Thermostat

The battery-powered thermostat will capture indoor temperature and report the value to gateway and control heating system like furnace, on/off valve through associated actuator module. It is designed to be surface-mounted for quick and easy installation. You do not even need a junction box behind the device so it's a good fit for retrofit project.

Battery-powered Thermostat
MH-2910

• Power supply: rechargeable battery (1500mAH Lithium polymer battery)/5V
USB Type-C charge
• Built-in temperature sensor for ambient temperature reading
• Installation: surface-mounted / position-free e.g.tabletop placing
• Casing material:PC+ABS
• Dimension:105*105*15mm

Battery-powered Thermostat
MH-8600

• Power supply: 2*AA dry battery
• Built-in temperature sensor for ambient temperature reading
• Installation: surface-mounted / position-free e.g.tabletop placing
• Display: LCD screen with capacitive touch button
• Casing material:PC+ABS
• Dimension:86*86mm

Electrical Heating Thermostat

Applied to control floor heating and baseboard systems, with two sensors to detect indoor & floor temperature, and floor overheating protection GFCI (ground fault circuit interrupter).

MH-6900

• Applied to control floor heating and baseboard system
• With two sensors to detect indoor & floor temperature
• Floor overheating protection
• GFCI (leakage protection): level 5mA
• Power supply: AC120V/AC240V , 50/60Hz
• Frameless display
• Dimension: 76*120mm
• Max output: 1800W at AC120 V, 3600W at AC240V
• Temperature setting range: 41 °F -99 °F (5 ℃ -37 ℃)
• Multi-working modes to meet various user's needs: Comfort Mode, Energy-saving Mode,Vacation Mode, Pre-set Heating Schedule Mode

MH4

• Applied to control floor heating and baseboard system
• With two sensors to detect indoor & floor temperature
• Floor overheating protection
• GFCI (leakage protection): level 5mA
• ETL,FCC Certification
• Multi-working modes to meet various user's needs: Comfort Mode,Energy-saving
Mode, Vacation Mode, Pre-set Heating Schedule Mode
• Dimension: 136*94*26mm
• Power supply: AC120V/AC240V , 50/60Hz
• Max output: 1800W at 120 VAC, 3600W at 240VAC
• Temperature setting range: 41 °F -99 °F (5 °C -37 °C)
• Temperature format: °C / °F , Time format: 12h/24h

Water / Electrical Heating Thermostat
MH7

Applied to control water heating system like: wall mounted boiler, water valve/ pump, under floor pipes, radiator systems, etc; and electrical system like: heating cable, electro-thermal film, heating actuator, electrical globe valve etc.

• Model :MH7H-WH (water heating thermostat) MH7H-EH(electrical heating thermostat)
• Power supply:AC85~260V, 50/60Hz
• Output: MH7H-WH ≤5A ; MH7H-EH≤ 16A
• Power consumption:≤1W
• Working environment:0-50 °C ; 0-90% RH(Non-condensation)
• Temperature setting:5-37 °C (41-99 °F)(Adjustable)
• Dimension:86* 86*15mm
• Hole pitch:60-61mm
• Operation: Manual, Auto (Time periods), Holiday (Energy saving)
• With two temperature sensors for control
Internal temperature sensor: NTC 15K
External temperature sensor (optional):
• NTC R25 °C =15kΩ, B25 °C /50 °C =3550K

02
Switch

- Applied to control house-hold electrical appliances like lamp, motor, coffee machine, TV set etc.
- WHITE/ BLACK or other customized color
- Power supply: AC85-260V

U series switch

UK/ASIA 86 junction box
U-S1 (1 load up to 5A)
U-S2 (2 loads up to 5A/load)
U-S3 (3 loads up to 5A/load)

Mounting plate

Metal frame (White): WB1, WB2, WB3
Metal frame (Black): BB1, BB2, BB3

F series switch

UK/ASIA 86 junction box

MH-F311 (1 load up to 5A)

MH-F312 (2 loads up to 5A/load)

MH-F314 (4 loads up to 5A/load)

MH-F311H (1 load up to 10A)

MH-F312H (2 loads up to 10A/load)

S series switch

S310 Series

UK/ASIA 86 junction box

MH-S311 (1 load up to 5A)

MH-S312 (2 loads up to 5A/load)

MH-S314 (4 loads up to 5A/load)

MH-S311H (1 load up to 10A)

MH-S312H (2 loads up to 10A/load)

03
Dimmer

Applied to control house-hold electrical appliances like wall lamp, lamp, light, fan etc.

• Power supply: AC85-260V,50/60Hz

• Output: resistive loads 20-200W, resistive-capacitive loads 30-160VA,resistive-inductive loads 30-160VA

• Support leading edge or trailing edge dimming type

• Suit for different light sources

• Automatically/manually identify the type of light source and select the dimming mode

• Two-wire or three-wire supported

• With energy metering function

• With overload protection

U series dimmer

UK/ASIA 86 junction box
U-D2

F series dimmer

F-DT311(UK/ASIA 86)
junction box

DT series dimmer

MH-DT311

UK/ASIA 86)
(junction box

04
Shutter Panel

Applied to control roller shutter, venetian shutter, shades, garage door, sunscreen etc.

- Power supply: AC85-260V,50/60Hz
- Output: 1* 1.7A
- Motor type: single-phase asynchronous AC motor
- Working condition: 32 °F -104 °F (0 ℃ -40 ℃)
- Support automatic calibration or manual calibration

U series shutter

U-C2(UK/ASIA 86
(junction box

F series shutter

F-C321(UK/ASIA 86)
junction box

C series shutter

MH-C321

UK/ASIA 86)
(junction box

05
Non-Neutral Switch

• Power supply :AC85-260V

• Loading range:<=600W/gang

• Minimum load required:3W compact fluorescent lamp/5W LED

lamp/16W fluorescent lamp

U series non-neutral switch

U-S1-SL/U-S2-SL
(UK/ASIA 86 junction box)

F series non-neutral switch

MH-F311-SL/MH-F312-SL
(UK/ASIA 86 junction box)

S series non-neutral switch

MH-S311-SL/MH-S312-SL
(UK/ASIA 86 junction box)

06
Sensor

The sensors can real-time detect & alarm CO2, PM2.5, HCHO, VOC, Temperature, Humidity, Lux, Noise, PIR, smoke value in your smart home, they can even be customized with outputs to control air ventilation system directly.

Occupancy Sensor OS11/OS12

OS11 (ceiling mount)
OS12 (wall mount)

• Power supply: AC90-250V
• Z-Wave 800 series
• Based on Doppler radar technology to achieve intelligent detection functionality
• 3db horizontal beam angle up to 80°, vertical beam angle up to 85°, with high accuracy and wide detection range. It can accurately detect the presence,signal of movement, fretting and breathing to ensure the real presence detection
• Maximum range of respiratory presence: 2-3m in diameter
• Maximum range of microdynamic presence: 3-4m in diameter
• Maximum range of motion presence: 5-8m in diameter
• The switch time of detecting absence or presence: within 0.5sec
• Ultra-low RF power output, harmless to human health
• Comes with 5A dry contact output

Battery-powered Bookmark Strip Sensor

BMS-DS/BMS-WS/BMS-ES

Bookmark multi-sensor is one of the thinnest sensor in the world, with completely waterproof housing that can protect doors, windows, water leakage and with temperature, humidity, lux detection. It is a magnet sensor which is able to be mounted almost anywhere like doors, windows, cabinets, drawers, artworks and even on exterior gates, designed to fit invisibly in between most wood, aluminum, and plastic door and window frames. With up to 10 years life battery, you do not need to have the battery charged or replaced during the duration of usage.

• Built-in custom battery (LiMnO2)
• Premium tempered glass + VO Flame-retardant ABS
• IP65, indoor or outdoor use
• Quick installation way & easy set up
• Arctic white, wooden brown, energy orange, sky blue or any custom colors
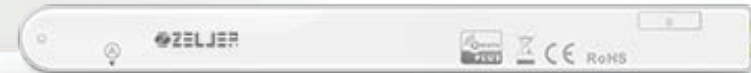• Dimension: 185*16*3mm

Model: BMS-DS
• Battery-powered door/window sensor
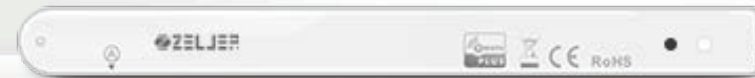• Battery life: around 10 years

Model: BMS-WS
• Battery-powered water leakage sensor
• Battery life: around 10 years

Model: BMS-ES
• Battery-powered multi-sensor
• Lux, temperature, humidity monitoring
• Battery life: around 5 years

A2 Series Sensor

A2 is a newly released environmental monitoring sensor which can be customized with different kinds of air quality sensor like: CO2, PM2.5, CO, CH4 etc. It can be installed on wall or put on tabletop for real-time detection.

- CO2 monitoring range: 400-5000ppm
- Dimension:89*89*20.5mm
- Housing: ABS+PC
- Hole pitch: 60mm
- Temperature range:0 – 50°C
- Humidity range: 0 – 85%RH
- Work environment:0~50   0-85%RH (Non-condensation)
  ℃

Muti-sensor A8

A8 is a multiple environmental monitoring sensor, with 3.5 inch TFT clear display and built- in with temperature, humidity, PM2.5, CO2, VOC, PIR, lux,noise and smoke sensor. Sensors can be customized with different sensors to suit for different markets.

- Power supply:DC12V
- Power Consumption:<3W
- Working environment:-20~+60℃ <99%RH (Non-condensation)
- Dimension:110* 110*32mm
- Housing: tempered glass+ PC Alloy
- Installation: Wall-mounted (Vertical)

Battery-powered CO2 Sensor A2-CO2-ZWB

- Power supply:1xER14505(3.6V 2700mAH)
- Battery life: more than 3 years based on 15 minutes reporting
- CO2, temperature, humidity monitoring

CO2 Sensor A2-CO2-ZW

- Power supply: DC12-24V
- CO2, temperature, humidity monitoring

CO2 Sensor A2-ZW

- Power supply: DC12-24V
- CO2, PM2.5, VOC, temperature, humidity monitoring

9 in 1 Multi-Sensor A8-9

- Temperature: 0~50 ℃
- Humidity: 0%RH~99%RH
- PM2.5: 0~500ug/m^3
- CO2: 0~5000ppm
- VOC: 0-64000ppb
- PIR: 0 or 1 Detection angle up to 120°
- Lux: 0~40000Lux
- Noise: 30dB~100dB
- Smoke: 0 or 1

7 in 1 Multi-Sensor A8-7

- Temperature: 0~50 ℃
- Humidity: 0%RH~99%RH
- PM2.5: 0~500ug/m3
- CO2: 0~5000ppm
- Lux: 0~40000Lux
- Noise: 30dB~100dB
- HCHO: 0-1000ug/m^3

MH9-CO2-WA
MH9-CO2-WD

• Monitor CO2 concentration in air with high accuracy
• Built-in with temperature, humidity, CO2 sensor
• Power supply: AC220V or DC12V (Optional)
• CO2 range:400-5000ppm, default alarm threshold: 1000ppm (adjustable)
• Temperature range: -9 ～ 50 ℃ (15-122 ℉) ; Humidity range: 0% ～ 99%RH
• Dimension:90* 130*28mm

MH10-PM2.5-WA
MH10-PM2.5-WD

• Monitor PM2.5 value in air with high accuracy
• Built-in with temperature, humidity, PM2.5 sensor
• Power supply: AC220V or DC12V (Optional)
• PM2.5 detection range: 0~500ug/m^3
• Temperature range: -9 ～ 50 ℃ (15-122 ℉);
• Humidity range: 0% ～ 99%RH
• Dimension:85* 135*33mm

07
Smart Plug

- JP Type: PS-J-ZW
- US Type : PS-A-ZW
- Max load: 1*13A
- With energy metering function

08
Customized Hardware

The customized hardware performs as a brain of the smart home system, it is able to be developed as a main controller or gateway in different applications e.g. security, smart building,health care and so on.

4-inch tablet
M40

• Built-in with multiple relays, available to be customized as a HVAC device
• Application: enable to be a main controller in different systems like smart home, HVAC, as well as combination with a fan coil thermostat feature
• Communication protocols:WiFi/Zigbee/Z-Wave/BLE/RS485
• With Android 11 OS and customizable UI

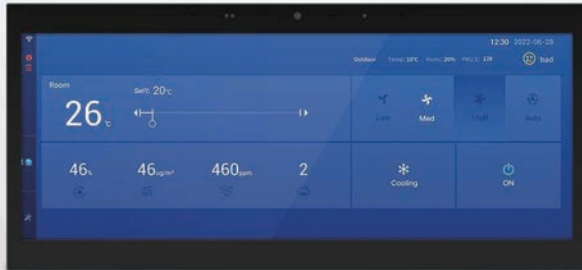| Dimension	86*86*11.2mm	
Specification		
CPU	A133 64bit Quad-core CortexTM-A531.6GHz GPU:IMGPowerVR GE8300	
RAM	1G DDR3L	
FLASH	8G EMMC	
Display	3.95-inch IPS; brightness 350 cd/m2; resolution 480*480	
Type of touch	Capacitive touch, 5-point touch control	
System	Android 11	Standard
WIFI	802.11 b/g/n 2.4G	
Bluetooth	BT4.2	
Power supply	AC90-250V or AC/DC24V	
Consumption	<5W	
Button1	Power button	
Optional		
Wireless communication	Tuya Zigbee or Z-Wave	
Speaker	1*1W	
MIC	2*MIC	

10.1-inch tablet
EXPad10

- High resolution wide viewing angle IPS display screen
- Adopt right angle metal frame facade, extremely simple and thin
- With microphone array, available for voice intercom
- Android OS, octa-core processor, built-in with variety kinds of peripheral interfaces

Dimension	272*155*14mm	
	Specification	
CPU	A133 64bit Quad-core CortexTM-A531.6GHz GPU:IMGPowerVR GE8300	Standard
RAM	1G DDR3L	
FLASH	8G EMMC	
Display	10.1-inch IPS; brightness 250 cd/m2; resolution 800*1280	
Type of touch	Capacitive touch, 10-point touch control	
System	Android 11	
WIFI	802.11 b/g/n 2.4G	
Speaker	2*1W	
MIC	1*MIC	
Power supply	DC12V/1A, DC9-30V wide voltage input(not included 12V adapter)	
Consumption	<10W	
Button1	Power button	
USB	1*TYPE-C jack , slave mode by default (USB 2.0)	
RS485	2-way by default	
	Optional	
10M/100M Ethernet	RJ45-1: using with AC power module	Optional
	RJ45-2: using without AC power module, Ethernet switching wire is needed	
Wireless communication	Z-Wave 、LoRa 、Tuya Zigbee 、Tuya WIFI or 4G-LTE	
RAM	2G DDR3L	
Power supply module	AC110-240V	
RS485	3-way RS485 module by default(not included Ethernet)	
Microphone array	2*MIC	

12.3-inch tablet
EXPad12

- High resolution display screen, resolution 1920*720
- With microphone array, available for voice intercom
- Communication protocols:WiFi/Zigbee/Z-Wave/BLE/RS485
- Application:HVAC smart control, central control, smart home gateway etc.

Dimension	142*309*14mm	
Specification		
CPU	A83T Octa-Core CortexTM-A7	Standard
	A133 64bit Quad-core CortexTM-A53 1.6GHz	
RAM	1G DDR3L	
FLASH	8G EMMC	
Display	12.3-inch IPS;brightness400cd/m2; Resolution 1920*720	
Type of touch	Capacitive touch, 5-point touch control	
System	Android 7.1（A83T)	
	Android 11（A133)	
WIFI	802.11 b/g/n 2.4G	
Bluetooth	BT4.2	
Speaker	2*1W	
MIC	1*MIC	
Power supply	DC12V/1A，support DC9-30V wide voltage input（not included 12V adapter)	
Consumption	<10W	
Button1	Power button	
USB	1*TYPE-C jack，slave mode by default (USB 2.0)	
RS485	2-port by default	
Optional		
10M/100M Ethernet	RJ45-1: using with AC power module	Optional
	RJ45-2: using without AC power module, Ethernet switching wire is needed	
Wireless communication	Z-Wave、LoRa、TuyaZigbee、TuyaWIFlor 4G-LTE Note:All wireless module can not exist simultaneously	
RAM	2G DDR3L	
Power supply module	AC110-240V	
RS485	3-way RS485 module by default(not included Ethernet)	
Microphone array	2*MIC	

Gateway Hub
OClink

OCLink acts as a gateway of the smart home system, which is a hardware platform based on a robust A83T Octa-Core Cortex™-A7 processor. This platform equips with 1-way RS485, WIFI, Bluetooth, Ethernet, HDMI, USB, Micro SD and Z-Wave module. It can be placed on tabletop and move wherever you want with its compact size.

	Specification	
CPU	A83T Octa-Core CortexTM-A7	
RAM	1G DDR3L	
FLASH	8G EMMC	
System	Android 5.1.1 or above/Linux	
Power supply	DC12V/1A , support 9V-30VDC wide range voltage input	
Power consumption	<5W	
WIFI	802.11 /b/g/n 2.4G	
Bluetooth	BT4.2	
Z-Wave	800 series	Standard
Button1	Set-up network/others	
Button2	Long press to restore factory setting	
RS485	1-way RS485	
TF card slot	Built-in 1*Micro SDcard	
HDMI	1* HDMI 1.4	
USB	Built-in 1*USB2.0(TYPE-C port)	
RJ45	1* 10M/100M Ethernet port	
	Optional	
RAM	2G DDR3L	

7-inch tablet

T-Pad

- Thermostat Feature: controller with heat pump thermostat feature
- 3-stage heating and 2-stage cooling
- Environment scope of external sensor (optional): -58/+158 °F (-50/+70 °C)
- Humidity detection: Optional
- Working mode: heating , cooling , Auto , Schedule , EM heat
- Terminal: C , RH , RC , W1 , W2 , AUX , L , O , A , B , Y2 , Y1 , G , B
- Other functions: Dual Fuel , Backup heat

Dimension	181*116*22.6mm	
	Specification	
CPU	A83T Octa-Core CortexTM-A7	
RAM	1G DDR3L	
FLASH	8G EMMC	
Display	7-inch IPS, Resolution:1024*600	
Type of touch	Capacitive touch, 5-point touch control	
System	Android 5.11 or above	
Audio	1*speaker, 1*microphone	
Power supply	AC24V	Standard
Consumption	<10W	
Button	1*Power , 1*Volume+ , 1*Volume-	
Interface	1*TYPE-C USB(USB2.0) ,1*Micro SD slot	
Working environment	14/+122°F (-10/+50 °C)	
RS485	2-way by default	
Wireless communication	Z-Wave,standard WIFI 802.11 b/g/n 2.4G,BT4.0,Lora,Tuya WIFI	
Thermostat Feature		
3-stage heating and 2-stage cooling		
Environment scope of external sensor(optional):-58/+158°F(-50/+70 °C)		
Humidity detection: Optional		
Working mode: heating, cooling, auto, schedule		

7-inch tablet
MCPad-Plus

• 7"24-digit true color touch screen Android operation system, customized UI screens
• RS485 communication interface used to collect data of environment parameters and equipment working condition(Optional)
• WiFi communication, APPs for Android and iOS

Dimension	176.7*111.7*17.5mm
Working environment	-10 ℃ - 50 ℃ , 5% - 95%RH

Specification		
CPU	A83T Octa-Core CortexTM-A7	Standard
RAM	1G DDR3L	
FLASH	8G EMMC	
Display	7-inch TFT screen, resolution:1024*600	
Type of touch	Capacitive touch, 5-point touch control	
System	Android 5.11	
Standard WIFI	802.11 b/g/n 2.4G	
Bluetooth	BT4.0	
Power supply	DC12V/1A,support DC9-30V wide voltage input，power consumption <4W	
Button	1*power,1*reset button(back cover)	
TF slot	1* Micro SD card	
RS485	2-way	
Optional		
Wireless communication	Z-wave/Lora/Haike,Tuya,QingkeWiFi Module	
RAM	2G DDR3L	
Speaker	1*1W	
MIC	1*MIC	
10M/100M Ethernet	1 (Ethernet switching wire is needed)	

ZELJER

ZELJER

8-inch tablet
OCPad

OCPad performs as a brain of the smart home system, which is a hardware platform based on a robust A83T Octa-Core Cortex™-A7 processor, with its 8-inch IPS touch screen. This platform equips with 2-port RS485, wifi, bluetooth, Ethernet, MIC, speaker, IR sensor and terminals of HDMI, USB and micro SD, also it is optional built-in with rechargeable battery, 4G module, camera, Z-Wave module, Zigbee module according to customers' requirements. It can be mounted on wall or placed on tabletop with a stand. It provides different applications for home centre, smart host, human-computer interaction, main controller of devices, data collector etc.. OCpad is the unique core hardware of IoT, it is able to be a smart control system, human-computer interaction, data interaction and data transmission.

Dimension	209*130*15.9mm	
Specification		
CPU	A83T Octa-Core CortexTM-A7	Factory Standard
RAM	1G DDR3L	
FLASH	8G EMMC	
Display	8-inch IPS; Resolution 800*1280; Illumination 300 cd/m2;	
Type of Touch	Capacitive touch, 5-point touch control supported	
System	Android 5.1.1 or above	
WIFI	802.11 b/g/n 2.4G	
Bluetooth	BT4.0	
Speaker	1*1W (Not available when powered by battery)	
MIC	1*MIC	
Power Supply	AC110-240V	
	DC12V/1A, support DC9-30V Wide voltage input	
	5V/2A USB Adaptor (not included)	
Consumption	<8W	
Button 1	Volume +	
Button 2	Volume - / UBOOT	
Button 3	Power ON/OFF	
SD Slot	1*Micro SD card	
HDMI	1*MINI HDMI V1.4	
USB	1*TYPE-C Jack, Slave mode(USB2.0)	
10M/100M Ethernet	RJ45-1: Using with AC power module	
	RJ45-2: If using without AC power module,Ethernet switching wire is needed	
RS485	2-Port	
Optional		
Wireless communication	Z-wave/Lora/Haike,Tuya,QingkeWiFi Module	Optional
Battery	3.7V/1500mAH (40-60 Mins)	
RAM	2G DDR3L	
AC 110-240V	AC power supply module	