MH-2 | Modbus Gateway for Mitsubishi Heavy Industries Air Conditioners

Ventalen · MH-2 · Technical documentation



1. Technical specifications

Interface	RS485
Interface isolation	Galvanically isolated
Protocol	Modbus RTU + Fast Modbus; the address is set in software and the factory settings are shown on the label
Dimensions	60 × 37 × 16 mm (L × W × H), including label, excluding terminal block 69 × 37 × 16 mm (L × W × H), including label and terminal block
Power supply (recommended)	24 V DC
Baud rate	9600 (default), 19200, 38400, 57600, 115200
Stop bits	2
Parity	None (N)
Power consumption	1 W maximum
Bus and power connection	Screw terminal block
Recommended wire cross-section with ferrule	0.35–1 mm² — single conductors 0.35–0.5 mm² — twin conductors
Terminal screw torque	0.2 N·m
Operating mode	Continuous
Operating temperature	0 to +40 °C
Protection rating	IP30
Weight (including box)	85 g

Interface	RS485
Package contents	Box, gateway and air-conditioner connection cable

1.1 Hardware revision

B

Current revision September 2024 – present New gateway platform with Fast Modbus support New device enclosure Updated processor and electronic components New pin assignment for the RS485 bus connection Added an illuminated button indicating gateway operation and status

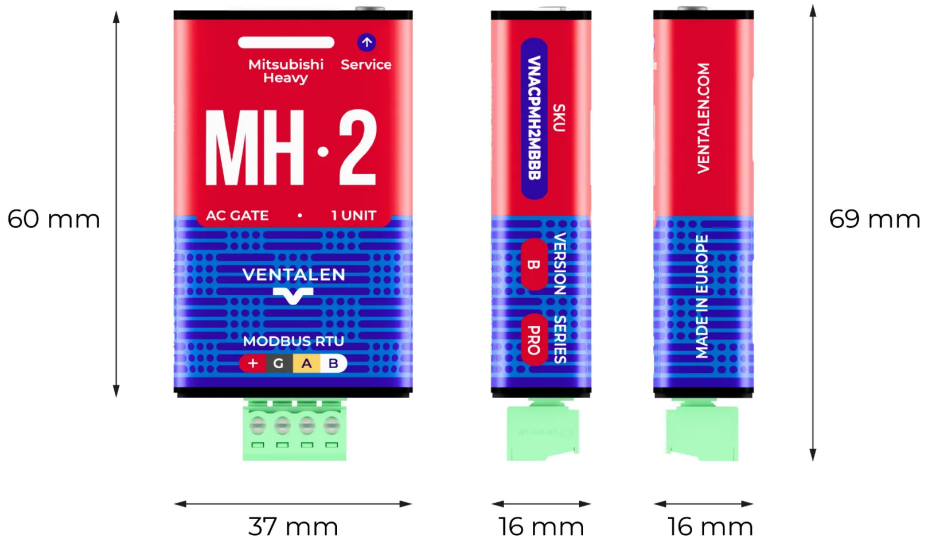
1.2 Device image

Device images for use in your projects MH-2.png (coming soon) MH-2.svg (coming soon) MH-2.pdf (coming soon)

1.3 Package contents



1.4 Device dimensions





Serial
Device serial number

HW (Hardware)
Controller board version

FW (Firmware)
Device firmware version

Model
Device model

1.5 Ports and buttons



2. Appearance

3. Brief instructions

- Disconnect power from the air conditioner and gateway before connecting them - Check all connections before switching on the power - Connect the gateway to the CNS connector - Use the recommended 24 V power supply - Do not install the gateway in damp locations

3.1 Troubleshooting

1. Check that the interface cable is correctly connected to the air conditioner: - the connector is fully inserted into the air conditioner control board; - the connector is fully inserted into the gateway; - the connector is not broken; - the interface cable conductors are securely seated in the connectors at both ends. 2. Check that the gateway is receiving the correct power supply. Measure the voltage at the terminal if necessary. 3. Check that RS485 conductors A and B are correctly connected at both the gateway and the controller. 4. Check that the RS485 terminal block is fully inserted into the gateway. 5. Make sure the correct cable is used for the RS485 bus.

4. Register map

Address	Register parameter	Description	Values			
Dec	Hex	Type	Access	Format		
Coil registers						
1	0x0001	Coil	RW	Bool	Air conditioner status	0 - Off 1 - On
20	0x0014	Coil	R	Bool	Air conditioner online	0 - No 1 - Yes
100	0x0064	Coil	RW	Bool	Use an external temperature sensor	0 - No 1 - Yes
Holding registers						
1	0x0001	Holding	RW	UInt16	Operating mode	1 – Heating 2 – Cooling 3 – Auto 4 – Dry 5 - Fan
2	0x0002	Holding	RW	UInt16	Status and mode This register supports systems in which power-off and operating mode are controlled through the same register.	0 – Off 1 – Heating 2 – Cooling 3 – Auto 4 – Dry 5 - Fan
3	0x0003	Holding	RW	SInt16	Indoor air temperature °C By default, this register contains the air temperature measured by the air conditioner's built-in sensor. If a value from an external sensor is written to the register, the returned value includes the correction stored in register 20. Resolution: 0.25°C.	-32768...32768 Multiply the value by 0.01 to obtain the temperature. For example, 2560 represents 25.6°C
5	0x0005	Holding	RW	SInt16	Target temperature °C. Temperature is set in 0.25°C increments.	-32768...32768 Multiply the value by 0.01 to obtain the temperature. For example, 2500 represents 25.0°C
6	0x0006	Holding	R	UInt16	Thermostat status	0 – Idle 1 – Heating 2 – Cooling
7	0x0007	Holding	RW	UInt16	Fan speed	0 - Auto 1 – First speed 2 - Second speed 3 - Third speed 4 - Fourth speed
9	0x0009	Holding	RW	UInt16	Horizontal louvers Position 1 is the lowest Position 5 is the highest	0 - Stopped 1 - Swinging 2 - Position 1 3 - Position 2 4 - Position 3 5 - Position 4 6 - Position 5

Address	Register parameter	Description	Values			
10	0x000A	Holding	RW	UInt16	Vertical louvers Position 1 is the leftmost Position 5 is the rightmost	0 - Stopped 1 - Swinging 2 - Position 1 3 - Position 2 4 - Position 3 5 - Position 4 6 - Position 5
11	0x000B	Holding	RW	UInt16	Airflow direction This register supports smart-home systems that expose only one airflow-direction register.	0 – Stopped 1 - Horizontal and vertical swing 2 - Horizontal louver swing 3 - Vertical louver swing
15	0x000F	Holding	RW	UInt16	Operating mode (for Loxone)	1 – Auto 2 – Heating 3 –Cooling 4 – Dry 5 - Fan
Holding registers (service)						
110	0x006E	Holding	RW	SInt16	Modbus baud rate	Multiply the register value by 100 to obtain the actual baud rate; divide the desired baud rate by 100 before writing it. 96 - 9600 192 - 19200 384 - 38400 576 - 57600 1152 - 115200
111	0x006F	Holding	RW	UInt16	RS-485 port parity setting	0 — no parity (none), 1 — odd, 2 — even
112	0x0070	Holding	RW	UInt16	RS-485 port stop bits	1, 2
128	0x0080	Holding	RW	UInt16	Device Modbus address	1...247
200 - 219	0x00C8 - 0x00DB	Holding	R	String	Device hardware revision	MH-2
250 - 265	0x00FA- 0x0109	Holding	R	String	Device firmware version	0.5.0 or later

5. Useful files

Ventalen MH-2 template for Wiren Board.json (coming soon)

6. Warranty

Warranty period — 6 years from the date of sale through a retail network, authorised representative or integrator. The warranty period and service life of the air-conditioner gateway begin on the date the product is delivered to the customer. If the delivery date cannot be established, these periods begin on the date of manufacture. The product passport, with manufacture and sale dates, may be used to establish these dates. The warranty does not cover: - gateways or components showing mechanical damage, liquid ingress, burning or unauthorised opening; - gateways supplied without the complete original package; - failures caused by transport damage, negligent handling or improper care; - incorrect installation, repair or commissioning by unqualified personnel; - causes beyond the manufacturer's control, including incorrect bus voltage, fire, flooding or other force-majeure events. Warranty replacement and repair are provided by the seller.

7. Supported air conditioner models

2008

7.1 2008 models

Air conditioner series	Model	Gateway
Residential air conditioners		
Wall-mounted series SRK-ZHX-S	SRK50ZHX-S | SRK50ZHX-S	MH-2
SRK60ZHX-S | SRK60ZHX-S		

2009

7.2 2009 models

Air conditioner series	Model	Gateway
Residential air conditioners		
Wall-mounted series SRK-ZIX-S	SRK20ZIX-S | SRC20ZIX-S	MH-2
SRK25ZIX-S | SRC25ZIX-S		
SRK35ZIX-S | SRC35ZIX-S		
SRK50ZIX-S | SRC50ZIX-S		
SRK60ZIX-S | SRC60ZIX-S		
Floor-standing — SRF-ZIX-S	SRF25ZIX-S| SRC25ZIX-S	MH-2
SRF35ZIX-S | SRC35ZIX-S		
SRF50ZIX-S | SRC50ZIX-S		

2010

7.3 2010 models

Air conditioner series	Model	Gateway
Residential air conditioners		
Wall-mounted series SRK-ZHX-S	SRK50ZHX-S | SRK50ZHX-S	MH-2
SRK60ZHX-S | SRK60ZHX-S		

2011

7.4 2011 models

Air conditioner series	Model	Gateway
Residential air conditioners		
Wall-mounted series HOTROD	SRK20ZJX-S1 | SRC20ZJX-S	MH-2
SRK25ZJX-S1 | SRC25ZJX-S		
SRK35ZJX-S1 | SRC35ZJX-S		
Wall-mounted series SRK-ZJX-S	SRK20ZJX-S | SRC20ZJX-S	MH-2
SRK25ZJX-S | SRC25ZJX-S		
SRK35ZJX-S | SRC35ZJX-S		
SRK50ZJX-S | SRC50ZJX-S		

Air conditioner series	Model	Gateway
SRK60ZJX-S | SRC60ZJX-S		
Floor-standing — SRF-ZJX-S	SRF25ZJX-S | SRC25ZJX-S	MH-2
SRF35ZJX-S | SRC35ZJX-S		
SRF50ZJX-S | SRC50JIX-S		
Wall-mounted series SRK-ZJ-S	SRK20ZJ-S | SRC20ZJ-S	MH-2
SRK25ZJ-S | SRC25ZJ-S		
SRK35ZJ-S | SRC35ZJ-S		
SRK50ZJ-S | SRC50ZJ-S		
Wall-mounted series SRK-ZK-S	SRK63ZK-S1 | SRC63ZK-S1	MH-2
SRK71ZK-S1 | SRC71ZK-S1		
SRK80ZK-S1 | SRC80ZK-S1		
Ducted units SRR-ZJ-S	SRR25ZJ-S | SRC25ZJX-S	MH-2
SRR35ZJ-S | SRC35ZJX-S		
Multi-split systems		
Wall-mounted series SRK-ZJR-S	SRK25ZJR-S	MH-2
SRK35ZJR-S		
Ducted — SRRM-ZJ-S	SRR50ZJ-S	MH-2
SRR60ZJ-S		

2012

7.5 2012 models

Air conditioner series	Model	Gateway
Residential air conditioners		
Wall-mounted series SRK-ZJX-S	SRK20ZJX-S | SRC20ZJX-S	MH-2
SRK25ZJX-S | SRC25ZJX-S		
SRK35ZJX-S | SRC35ZJX-S		
SRK50ZJX-S | SRC50ZJX-S		
SRK60ZJX-S | SRC60ZJX-S		
Wall-mounted SRK-ZK-S	SRK63ZK-S1 | SRC63ZK-S1	MH-2
SRK71ZK-S | SRC71ZK-S		
SRK80ZK-S | SRC80ZK-S		
Wall-mounted series SRK-ZJ-S	SRK20ZJ-S | SRC20ZJ-S	MH-2
SRK25ZJ-S | SRC25ZJ-S		
SRK35ZJ-S | SRC35ZJ-S		
SRK50ZJ-S | SRC50ZJ-S		
Floor-standing — SRF-ZJX-S	SRF25ZJX-S | SRC25ZJX-S	MH-2
SRF35ZJX-S | SRC35ZJX-S		
SRF50ZJX-S | SRC50JIX-S		
Ducted — SRR-ZJ-S	SRR25ZJ-S | SRC25ZJX-S	MH-2
SRR35ZJ-S | SRC35ZJX-S		
Multi-split systems		

Air conditioner series	Model	Gateway
Ducted — SRR-ZJ-S	SRR50ZJ-S	MH-2
SRR60ZJ-S		

2013

7.6 2013 models

Air conditioner series	Model	Gateway
Residential air conditioners		
Wall-mounted series SRK-ZJX-S	SRK20ZJX-S | SRC20ZJX-S	MH-2
SRK25ZJX-S | SRC25ZJX-S		
SRK35ZJX-S | SRC35ZJX-S		
SRK50ZJX-S | SRC50ZJX-S		
SRK60ZJX-S | SRC60ZJX-S		
Wall-mounted series SRK-ZK-S	SRK63ZK-S1 | SRC63ZK-S1	MH-2
SRK71ZK-S | SRC71ZK-S		
SRK80ZK-S | SRC80ZK-S		
Wall-mounted series SRK-ZJ-S	SRK20ZJ-S | SRC20ZJ-S	MH-2
SRK25ZJ-S | SRC25ZJ-S		
SRK35ZJ-S | SRC35ZJ-S		
SRK50ZJ-S | SRC50ZJ-S		
Floor-standing — SRF-ZJX-S	SRF25ZJX-S | SRC25ZJX-S	MH-2
SRF35ZJX-S | SRC35ZJX-S		
SRF50ZJX-S | SRC50JIX-S		
Ducted — SRR-ZJ-S	SRR25ZJ-S | SRC25ZJX-S	MH-2
SRR35ZJ-S | SRC35ZJX-S		
Wall-mounted series SRK-ZM-S	SRK63ZM-S | SRC63ZM-S	MH-2
SRK71ZM-S | SRC71ZM-S		
SRK80ZM-S | SRC80ZM-S		
Multi-split systems		
Ducted units SRR-ZJ-S	SRR50ZJ-S	MH-2
SRR60ZJ-S		

2014

7.7 2014 models

Air conditioner series	Model	Gateway
Residential air conditioners		
Wall-mounted series SRK-ZMX-S	SRK20ZMX-S | SRC20ZMX-S	MH-2
SRK25ZMX-S | SRC25ZMX-S		
SRK35ZMX-S | SRC35ZMX-S		
SRK50ZMX-S | SRC50ZMX-S		
SRK60ZMX-S | SRC60ZMX-S		
Wall-mounted series SRK-ZM-S	SRK20ZM-S | SRC20ZM-S	MH-2
SRK25ZM-S | SRC25ZM-S		
SRK35ZM-S | SRC35ZM-S		
SRK50ZM-S | SRC50ZM-S		
Wall-mounted series SRK-ZM-S1	SRK63ZM-S1 | SRC63ZM-S1	MH-2
SRK71ZM-S1 | SRC71ZM-S1		
SRK80ZM-S1 | SRC80ZM-S1		
Floor-standing — SRF-ZMX-S	SRF25ZMX-S | SRC25ZMX-S	MH-2
SRF35ZMX-S | SRC35ZMX-S		
SRF50ZMX-S | SRC50ZMX-S		
Ducted — SRR-ZJ-S	SRR25ZJ-S | SRC25ZJMX-S	MH-2
SRR35ZJ-S | SRC35ZJMX-S		
SRR50ZJ-S | SRC50ZMX-S		

2015

7.8 2015 models

Air conditioner series	Model	Gateway
Residential air conditioners		
Wall-mounted series SRK-ZMX-S	SRK20ZMX-S | SRC20ZMX-S	MH-2
SRK25ZMX-S | SRC25ZMX-S		
SRK35ZMX-S | SRC35ZMX-S		
SRK50ZMX-S | SRC50ZMX-S		
SRK60ZMX-S | SRC60ZMX-S		
Wall-mounted series SRK-ZM-S	SRK20ZM-S | SRC20ZM-S	MH-2
SRK25ZM-S | SRC25ZM-S		
SRK35ZM-S | SRC35ZM-S		
SRK50ZM-S | SRC50ZM-S		
Wall-mounted series SRK-ZM-S1	SRK63ZM-S1 | SRC63ZM-S1	MH-2
SRK71ZM-S1 | SRC71ZM-S1		
SRK80ZM-S1 | SRC80ZM-S1		
Floor-standing — SRF-ZMX-S	SRF25ZMX-S | SRC25ZMX-S	MH-2
SRF35ZMX-S | SRC35ZMX-S		
SRF50ZMX-S | SRC50ZMX-S		
Wall-mounted SRK-ZR-S	SRK63ZR-S | SRC63ZR-S	MH-2

Air conditioner series	Model	Gateway
SRK71ZR-S | SRC71ZR-S		
SRK80ZR-S | SRC80ZR-S		
Ducted — SRR-ZM-S	SRR25ZM-S | SRC25ZMX-S	MH-2
SRR35ZM-S | SRC35ZMX-S		
SRR50ZM-S | SRC50ZMX-S		
SRR60ZM-S | SRC60ZMX-S		

2018

7.9 2018 models

Air conditioner series	Model	Gateway
Residential air conditioners		
Wall-mounted series SRK-ZS	SRK20ZS-S | SRC20ZS-S	MH-2
SRK20ZS-SB | SRC20ZS-S		
SRK20ZS-ST | SRC20ZS-S		
SRK25ZS-S | SRC25ZS-S		
SRK25ZS-SB | SRC25ZS-S		
SRK25ZS-ST | SRC25ZS-S		
SRK35ZS-S | SRC35ZS-S		
SRK25ZS-SB | SRC35ZS-S		
SRK25ZS-ST | SRC35ZS-S		
SRK50ZS-S | SRC50ZS-S		
SRK50ZS-SB | SRC50ZS-S		
SRK50ZS-ST | SRC50ZS-S		
Wall-mounted series SRK-ZSX-S	SRK20ZSX-S | SRC20ZSX-S	MH-2
SRK25ZSX-S | SRC25ZSX-S		
SRK35ZSX-S | SRC35ZSX-S		
SRK50ZSX-S | SRC50ZSX-S		
SRK60ZSX-S | SRC60ZSX-S		
Wall-mounted series SRK-ZSX-W	SRK20ZSX-W | SRC20ZSX-W	MH-2
SRK20ZSX-WT | SRC20ZSX-W		
SRK20ZSX-WB | SRC20ZSX-W		
SRK25ZSX-W | SRC25ZSX-W		
SRK25ZSX-WT | SRC25ZSX-T		
SRK25ZSX-WB | SRC25ZSX-W		
SRK35ZSX-W | SRC35ZSX-W		
SRK35ZSX-WT | SRC35ZSX-W		
SRK35ZSX-WB | SRC35ZSX-W		
SRK50ZSX-W | SRC50ZSX-W		
SRK50ZSX-WT | SRC50ZSX-W		
SRK50ZSX-WB | SRC50ZSX-W		
SRK60ZSX-W | SRC60ZSX-W		

Air conditioner series	Model	Gateway
SRK60ZSX-WT | SRC60ZSX-W		
SRK60ZSX-WB | SRC60ZSX-W		
Wall-mounted series SRK-ZR	SRK63ZR-S | SRC63ZR-S	MH-2
SRK71ZR-S | SRC71ZR-S		
SRK80ZR-S | SRC80ZR-S		
SRK100ZR-S | FDC100VNP		
SRK100ZR-S | FDC100VNA		
SRK100ZR-S | FDC100VSA		
Wall-mounted series SRK-ZSPR	SRK63ZSPR-S | SRC63ZSPR-S	MH-2
SRK71ZSPR-S | SRC71ZSPR-S		
SRK80ZSPR-S | SRC80ZSPR-S		
Ducted — SRR-ZM	SRR25ZM-S | SRC25ZMX-S	MH-2
SRR35ZM-S | SRC35ZMX-S		
Floor-standing — SRF-ZMX	SRF25ZMX-S | SRC25ZMX-S	MH-2
SRF35ZMX-S | SRC35ZMX-S		
SRF50ZMX-S | SRC50ZSX-S		
Multi-split systems		
Wall-mounted series SRK-ZSX-W	SRK20ZSX-W	MH-2
SRK20ZSX-WT		
SRK20ZSX-WB		
SRK25ZSX-W		
SRK25ZSX-WT		
SRK25ZSX-WB		
SRK35ZSX-W		
SRK35ZSX-WT		
SRK35ZSX-WB		
SRK50ZSX-W		
SRK50ZSX-WT		
SRK50ZSX-WB		
SRK60ZSX-W		
SRK60ZSX-WT		
SRK60ZSX-WB		
Wall-mounted series SRK-ZSX-S	SRK20ZSX-S	MH-2
SRK25ZSX-S		
SRK35ZSX-S		
SRK50ZSX-S		
SRK60ZSX-S		
Wall-mounted series SRK-ZR / SRK-ZS	SRK71ZR-S	MH-2
SRK20ZS-S		
SRK20ZS-SB		
SRK20ZS-ST		
SRK25ZS-S		

Air conditioner series	Model	Gateway
SRK25ZS-SB		
SRK25ZS-ST		
SRK35ZS-S		
SRK35ZS-SB		
SRK35ZS-ST		
SRK50ZS-S		
SRK50ZS-SB		
SRK50ZS-ST		
Floor-standing — SRF-ZMX	SRF25ZMX-S	MH-2
SRF35ZMX-S		
SRF50ZMX-S		
Ducted — SRR-ZM	SRR25ZM-S	MH-2
SRR35ZM-S		
SRR50ZM-S		
SRR60ZM-S		

2019

7.10 2019 models

Air conditioner series	Model	Gateway
Residential air conditioners		
Wall-mounted series SRK-ZSX-W	SRK20ZSX-W | SRC20ZSX-W	MH-2
SRK20ZSX-WB | SRC20ZSX-W		
SRK20ZSX-WT | SRC20ZSX-W		
SRK25ZSX-W | SRC25ZSX-W		
SRK25ZSX-WB | SRC25ZSX-W		
SRK25ZSX-WT | SRC25ZSX-W		
SRK35ZSX-W | SRC35ZSX-W		
SRK35ZSX-WB | SRC35ZSX-W		
SRK35ZSX-WT | SRC35ZSX-W		
SRK50ZSX-W | SRC50ZSX-W		
SRK50ZSX-WB | SRC50ZSX-W		
SRK50ZSX-WT | SRC50ZSX-W		
SRK60ZSX-W | SRC60ZSX-W		
SRK60ZSX-WB | SRC60ZSX-W		
SRK60ZSX-WT | SRC60ZSX-W		
Wall-mounted series SRK-ZS-W	SRK20ZS-W | SRC20ZS-W	MH-2
SRK20ZS-WB | SRC20ZS-W		
SRK20ZS-WT | SRC20ZS-W		
SRK25ZS-W | SRC25ZS-W		
SRK25ZS-WB | SRC25ZS-W		
SRK25ZS-WT | SRC25ZS-W		

Air conditioner series	Model	Gateway
SRK35ZS-W | SRC35ZS-W		
SRK35ZS-WB | SRC35ZS-W		
SRK35ZS-WT | SRC35ZS-W		
SRK50ZS-W | SRC50ZS-W		
SRK50ZS-WB | SRC50ZS-W		
SRK50ZS-WT | SRC50ZS-W		
Wall-mounted series SRK-ZSPR	SRK63ZSPR-S | SRC63ZSPR-S	MH-2
SRK71ZSPR-S | SRC71ZSPR-S		
SRK80ZSPR-S | SRC80ZSPR-S		
Wall-mounted series SRK-ZR-W	SRK63ZR-W | SRC63ZR-W	MH-2
SRK71ZR-W | SRC71ZR-W		
SRK80ZR-W | SRC80ZR-W		
Floor-standing — SRF-ZMX-S	SRF25ZMX-S | SRC25ZMX-S	MH-2
SRF35ZMX-S | SRC35ZMX-S		
SRF50ZMX-S | SRC50ZMX-S		
Ducted — SRR-ZM-S	SRR25ZM-S | SRC25ZMX-S	MH-2
SRR35ZM-S | SRC35ZMX-S		
SRR50ZM-S | SRC50ZMX-S		
SRR60ZM-S | SRC60ZMX-S		

2020

7.11 2020 models

Air conditioner series	Model	Gateway
Residential air conditioners		
Wall-mounted series SRK-ZSX-W	SRK20ZSX-W | SRC20ZSX-W	MH-2
SRK20ZSX-WB | SRC20ZSX-W		
SRK20ZSX-WT | SRC20ZSX-W		
SRK25ZSX-W | SRC25ZSX-W		
SRK25ZSX-WB | SRC25ZSX-W		
SRK25ZSX-WT | SRC25ZSX-W		
SRK35ZSX-W | SRC35ZSX-W		
SRK35ZSX-WB | SRC35ZSX-W		
SRK35ZSX-WT | SRC35ZSX-W		
SRK50ZSX-W | SRC50ZSX-W		
SRK50ZSX-WB | SRC50ZSX-W		
SRK50ZSX-WT | SRC50ZSX-W		
SRK60ZSX-W | SRC60ZSX-W		
SRK60ZSX-WB | SRC60ZSX-W		
SRK60ZSX-WT | SRC60ZSX-W		
Wall-mounted series SRK-ZS-W	SRK20ZS-W | SRC20ZS-W	MH-2
SRK20ZS-WB | SRC20ZS-W		

Air conditioner series	Model	Gateway
SRK20ZS-WT | SRC20ZS-W		
SRK25ZS-W | SRC25ZS-W		
SRK25ZS-WB | SRC25ZS-W		
SRK25ZS-WT | SRC25ZS-W		
SRK35ZS-W | SRC35ZS-W		
SRK35ZS-WB | SRC35ZS-W		
SRK35ZS-WT | SRC35ZS-W		
SRK50ZS-W | SRC50ZS-W		
SRK50ZS-WB | SRC50ZS-W		
SRK50ZS-WT | SRC50ZS-W		
Wall-mounted series SRK-ZSPR	SRK63ZSPR-S | SRC63ZSPR-S	MH-2
SRK71ZSPR-S | SRC71ZSPR-S		
SRK80ZSPR-S | SRC80ZSPR-S		
Wall-mounted series SRK-ZR-W	SRK63ZR-W | SRC63ZR-W	MH-2
SRK71ZR-W | SRC71ZR-W		
SRK80ZR-W | SRC80ZR-W		
SRK100ZR-W | FDC100VNP		
SRK100ZR-W | FDC100VNA		
SRK100ZR-W | FDC100VSA		
Floor-standing — SRF-ZMX-S	SRF25ZMX-S | SRC25ZMX-S	MH-2
SRF35ZMX-S | SRC35ZMX-S		
SRF50ZMX-S | SRC50ZMX-S		
Ducted units SRR-ZS-W	SRR25ZS-W | SRC25ZS-W1	MH-2
SRR35ZS-W | SRC35ZS-W1		
SRR50ZS-W | SRC50ZSX-W		
SRR60ZS-W | SRC60ZSX-W		

2021

7.12 2021 models

Air conditioner series	Model	Gateway
Residential air conditioners		
Wall-mounted series SRK-ZSX-W	SRK20ZSX-W | SRC20ZSX-W	MH-2
SRK20ZSX-WB | SRC20ZSX-W		
SRK20ZSX-WT | SRC20ZSX-W		
SRK25ZSX-W | SRC25ZSX-W		
SRK25ZSX-WB | SRC25ZSX-W		
SRK25ZSX-WT | SRC25ZSX-W		
SRK35ZSX-W | SRC35ZSX-W		
SRK35ZSX-WB | SRC35ZSX-W		
SRK35ZSX-WT | SRC35ZSX-W		
SRK50ZSX-W | SRC50ZSX-W		

Air conditioner series	Model	Gateway
SRK50ZSX-WB | SRC50ZSX-W		
SRK50ZSX-WT | SRC50ZSX-W		
SRK60ZSX-W | SRC60ZSX-W		
SRK60ZSX-WB | SRC60ZSX-W		
SRK60ZSX-WT | SRC60ZSX-W		
Wall-mounted series SRK-ZS-W	SRK20ZS-W | SRC20ZS-W	MH-2
SRK20ZS-WB | SRC20ZS-W		
SRK20ZS-WT | SRC20ZS-W		
SRK25ZS-W | SRC25ZS-W		
SRK25ZS-WB | SRC25ZS-W		
SRK25ZS-WT | SRC25ZS-W		
SRK35ZS-W | SRC35ZS-W		
SRK35ZS-WB | SRC35ZS-W		
SRK35ZS-WT | SRC35ZS-W		
SRK50ZS-W | SRC50ZS-W		
SRK50ZS-WB | SRC50ZS-W		
SRK50ZS-WT | SRC50ZS-W		
Wall-mounted series SRK-ZSPR-S	SRK63ZSPR-S | SRC63ZSPR-S	MH-2
SRK71ZSPR-S | SRC71ZSPR-S		
SRK80ZSPR-S | SRC80ZSPR-S		
Wall-mounted series SRK-ZR-W	SRK63ZR-W | SRC63ZR-W	MH-2
SRK71ZR-W | SRC71ZR-W		
SRK80ZR-W | SRC80ZR-W		
SRK100ZR-W | FDC100VNP		
Floor-standing — SRF-ZMX-S	SRF25ZMX-S | SRC25ZMX-S	MH-2
SRF35ZMX-S | SRC35ZMX-S		
SRF50ZMX-S | SRC50ZMX-S		
Ducted — SRR-ZS-W	SRR25ZS-W | SRC25ZS-W1	MH-2
SRR35ZS-W | SRC35ZS-W1		
SRR50ZS-W | SRC50ZSX-W		
SRR60ZS-W | SRC60ZSX-W		

2023

7.13 2023 models

Air conditioner series	Model	Gateway
Residential air conditioners		
Wall-mounted series SRK-ZSX-W	SRK20ZSX-W | SRC20ZSX-W	MH-2
SRK20ZSX-WB | SRC20ZSX-W		
SRK20ZSX-WT | SRC20ZSX-W		
SRK25ZSX-W | SRC25ZSX-W		
SRK25ZSX-WB | SRC25ZSX-W		
SRK25ZSX-WT | SRC25ZSX-W		
SRK35ZSX-W | SRC35ZSX-W		
SRK35ZSX-WB | SRC35ZSX-W		
SRK35ZSX-WT | SRC35ZSX-W		
SRK50ZSX-W | SRC50ZSX-W		
SRK50ZSX-WB | SRC50ZSX-W		
SRK50ZSX-WT | SRC50ZSX-W		
SRK60ZSX-W | SRC60ZSX-W		
SRK60ZSX-WB | SRC60ZSX-W		
SRK60ZSX-WT | SRC60ZSX-W		
Wall-mounted series SRK-ZS-W	SRK20ZS-W | SRC20ZS-W	MH-2
SRK20ZS-WB | SRC20ZS-W		
SRK20ZS-WT | SRC20ZS-W		
SRK25ZS-W | SRC25ZS-W		
SRK25ZS-WB | SRC25ZS-W		
SRK25ZS-WT | SRC25ZS-W		
SRK35ZS-W | SRC35ZS-W		
SRK35ZS-WB | SRC35ZS-W		
SRK35ZS-WT | SRC35ZS-W		
SRK50ZS-W | SRC50ZS-W		
SRK50ZS-WB | SRC50ZS-W		
SRK50ZS-WT | SRC50ZS-W		
Wall-mounted series SRK-ZSPR-S	SRK63ZSPR-S | SRC63ZSPR-S	MH-2
SRK71ZSPR-S | SRC71ZSPR-S		
SRK80ZSPR-S | SRC80ZSPR-S		
Wall-mounted series SRK-ZR-W	SRK63ZR-W | SRC63ZR-W	MH-2
SRK71ZR-W | SRC71ZR-W		
SRK80ZR-W | SRC80ZR-W		
SRK100ZR-W | FDC100VNP		
Floor-standing — SRF-ZS(X)-W	SRF25ZS-W | SRC25ZS-W2	MH-2
SRF35ZS-W | SRC35ZS-W2		
SRF50ZSX-W | SRC50ZSX-W2,-W3		
Ducted — SRR-ZS-W	SRR25ZS-W | SRC25ZS-W2	MH-2
SRR35ZS-W | SRC35ZS-W2		
SRR50ZS-W | SRC50ZSX-W2		

Air conditioner series	Model	Gateway
SRR60ZS-W | SRC60ZSX-W1		
Light-commercial systems		
Wall-mounted series SRK-ZSX-W	SRK50ZSX-W x 2 | FDC100VNX/VSX-W	MH-2
SRK50ZSX-W x 2 | FDC100VNA/VSA-W		
SRK60ZSX-W x 2 | FDC125VNX/VSX-W		
SRK60ZSX-W x 2 | FDC125VNA/VSA-W		
SRK50ZSX-W x 3 | FDC140VNX/VSX-W		
SRK50ZSX-W x 3 | FDC140VNA/VSA-W		
Wall-mounted series SRK-ZR-W	SRK71ZR-W | FDC71VNX/VNP-W	MH-2
SRK100ZR-W | FDC100VNP-W		
SRK100ZR-W | FDC100VNX/VSX-W		
SRK100ZR-W | FDC100VNA/VSA-W		
SRK71ZR-W x 2 | FDC140VNA/VSA-W		
SRK100ZR-W x 2 | FDC200VSA-W		

2024

7.14 2024 models

Air conditioner series	Model	Gateway
Residential air conditioners		
Wall-mounted series SRK-ZSX-WF	SRK20ZSX-WF | SRC20ZSX-W	MH-2
SRK20ZSX-WFB | SRC20ZSX-W		
SRK20ZSX-WFT | SRC20ZSX-W		
SRK25ZSX-WF | SRC25ZSX-W		
SRK25ZSX-WFB | SRC25ZSX-W		
SRK25ZSX-WFT | SRC25ZSX-W		
SRK35ZSX-WF | SRC35ZSX-W		
SRK35ZSX-WFB | SRC35ZSX-W		
SRK35ZSX-WFT | SRC35ZSX-W		
SRK50ZSX-WF | SRC50ZSX-W2,-W3		
SRK50ZSX-WFB | SRC50ZSX-W2,-W3		
SRK50ZSX-WFT | SRC50ZSX-W2,-W3		
SRK60ZSX-WF | SRC60ZSX-W1,-W3		
SRK60ZSX-WFB | SRC60ZSX-W1,-W3		
SRK60ZSX-WFT | SRC60ZSX-W1,-W3		
Wall-mounted series SRK-ZSX-W	SRK20ZSX-W | SRC20ZSX-W	MH-2
SRK25ZSX-W | SRC25ZSX-W		
SRK35ZSX-W | SRC35ZSX-W		
SRK50ZSX-W | SRC50ZSX-W2,-W3		
SRK60ZSX-W | SRC60ZSX-W1,-W3		
Wall-mounted series SRK-ZR-WF	SRK63ZR-WF | SRC63ZR-W	MH-2
SRK71ZR-WF | SRC71ZR-W		

Air conditioner series	Model	Gateway
SRK80ZR-WF | SRC80ZR-W		
SRK100ZR-WF | FDC100VNP-W		
Wall-mounted series SRK-ZR-W	SRK63ZR-W | SRC63ZR-W	MH-2
SRK71ZR-W | SRC71ZR-W		
SRK80ZR-W | SRC80ZR-W		
SRK100ZR-W | FDC100VNP-W		
Wall-mounted series SRK-ZS-WF	SRK20ZS-WF | SRC20ZS-W	MH-2
SRK20ZS-WFB | SRC20ZS-W		
SRK20ZS-WFT | SRC20ZS-W		
SRK25ZS-WF | SRC25ZS-W2		
SRK25ZS-WFB | SRC25ZS-W2		
SRK25ZS-WFT | SRC25ZS-W2		
SRK35ZS-WF | SRC35ZS-W2		
SRK35ZS-WFB | SRC35ZS-W2		
SRK35ZS-WFT | SRC35ZS-W2		
SRK50ZS-WF | SRC50ZS-W		
SRK50ZS-WFB | SRC50ZS-W		
SRK50ZS-WFT | SRC50ZS-W		
Wall-mounted series SRK-ZS-W	SRK20ZS-W | SRC20ZS-W	MH-2
SRK25ZS-W | SRC25ZS-W2		
SRK35ZS-W | SRC35ZS-W2		
SRK50ZS-W | SRC50ZS-W		
Wall-mounted series SRK-ZTL-W	SRK15ZTL-W | SRC15ZTL-W	MH-2
SRK20ZTL-W | SRC20ZTL-W		
SRK25ZTL-W | SRC25ZTL-W		
SRK35ZTL-W | SRC35ZTL-W		
SRK50ZTL-W | SRC50ZTL-W		
SRK63ZTL-W | SRC63ZTL-W		
SRK71ZTL-W | SRC71ZTL-W		
Floor-standing — SRF-ZS/ZSX	SRF25ZS-W | SRC25ZS-W2	MH-2
SRF35ZS-W | SRC35ZS-W2		
SRF50ZSX-W | SRC50ZSX-W2,-W3		
Ducted — SRR-ZS	SRR25ZS-W | SRC25ZS-W2	MH-2
SRR35ZS-W | SRC35ZS-W2		
SRR50ZS-W | SRC50ZSX-W3		
SRR60ZS-W | SRC60ZSX-W3		
Wall-mounted series SRK-ZSX-S	SRK20ZSX-S | SRC20ZSX-S	MH-2
SRK25ZSX-S | SRC25ZSX-S		
SRK35ZSX-S | SRC35ZSX-S		
SRK50ZSX-S | SRC50ZSX-S		
SRK60ZSX-S | SRC60ZSX-S		
Wall-mounted series SRK-ZR-S	SRK63ZR-S | SRC63ZR-S	MH-2

Air conditioner series	Model	Gateway
SRK71ZR-S | SRC71ZR-S		
SRK80ZR-S | SRC80ZR-S		
SRK100ZR-S | FDC100VNP		
Wall-mounted series SRK-ZS-S	SRK20ZS-S | SRC20ZS-S	MH-2
SRK20ZS-SB | SRC20ZS-S		
SRK20ZS-ST | SRC20ZS-S		
SRK25ZS-S | SRC25ZS-S		
SRK25ZS-SB | SRC25ZS-S		
SRK25ZS-ST | SRC25ZS-S		
SRK35ZS-S | SRC35ZS-S		
SRK35ZS-SB | SRC35ZS-S		
SRK35ZS-ST | SRC35ZS-S		
SRK50ZS-S | SRC50ZS-S		
SRK50ZS-SB | SRC50ZS-S		
SRK50ZS-ST | SRC50ZS-S		
Floor-standing — SRF-ZMX	SRF25ZMX-S | SRC25ZMX-S	MH-2
SRF35ZMX-S | SRC35ZMX-S		
SRF50ZMX-S | SRC50ZSX-S		
Ducted — SRR-ZM	SRR25ZM-S | SRC25ZMX-S	MH-2
SRR35ZM-S | SRC35ZMX-S		
Multi-split systems		
Wall-mounted series SRK-ZS	SRK15ZS-WF	MH-2
SRK15ZS-WFB		
SRK15ZS-WFT		
SRK20ZS-WF		
SRK20ZS-WFB		
SRK20ZS-WFT		
SRK25ZS-WF		
SRK25ZS-WFB		
SRK25ZS-WFT		
SRK35ZS-WFB		
SRK35ZS-WFT		
SRK50ZS-WF		
SRK50ZS-WFB		
SRK50ZS-WFT		

2025

7.15 2025 models

Air conditioner series	Model	Gateway
Residential air conditioners		
Wall-mounted series SRK-ZSX-WF	SRK20ZSX-WF | SRC20ZSX-W	MH-2
SRK20ZSX-WFB | SRC20ZSX-W		
SRK20ZSX-WFT | SRC20ZSX-W		
SRK25ZSX-WF | SRC25ZSX-W		
SRK25ZSX-WFB | SRC25ZSX-W		
SRK25ZSX-WFT | SRC25ZSX-W		
SRK35ZSX-WF | SRC35ZSX-W		
SRK35ZSX-WFB | SRC35ZSX-W		
SRK35ZSX-WFT | SRC35ZSX-W		
SRK50ZSX-WF | SRC50ZSX-W2,-W3		
SRK50ZSX-WFB | SRC50ZSX-W2,-W3		
SRK50ZSX-WFT | SRC50ZSX-W2,-W3		
SRK60ZSX-WF | SRC60ZSX-W1,-W3		
SRK60ZSX-WFB | SRC60ZSX-W1,-W3		
SRK60ZSX-WFT | SRC60ZSX-W1,-W3		
Wall-mounted series SRK-ZSX-W	SRK20ZSX-W | SRC20ZSX-W	MH-2
SRK25ZSX-W | SRC25ZSX-W		
SRK35ZSX-W | SRC35ZSX-W		
SRK50ZSX-W | SRC50ZSX-W2,-W3		
SRK60ZSX-W | SRC60ZSX-W1,-W3		
Wall-mounted series SRK-ZR-WF	SRK63ZR-WF | SRC63ZR-W	MH-2
SRK71ZR-WF | SRC71ZR-W		
SRK80ZR-WF | SRC80ZR-W		
SRK100ZR-WF | FDC100VNP-W		
Wall-mounted series SRK-ZR-W	SRK63ZR-W | SRC63ZR-W	MH-2
SRK71ZR-W | SRC71ZR-W		
SRK80ZR-W | SRC80ZR-W		
SRK100ZR-W | FDC100VNP-W		
Wall-mounted series SRK-ZS-WF	SRK20ZS-WF | SRC20ZS-W	MH-2
SRK20ZS-WFB | SRC20ZS-W		
SRK20ZS-WFT | SRC20ZS-W		
SRK25ZS-WF | SRC25ZS-W2		
SRK25ZS-WFB | SRC25ZS-W2		
SRK25ZS-WFT | SRC25ZS-W2		
SRK35ZS-WF | SRC35ZS-W2		
SRK35ZS-WFB | SRC35ZS-W2		
SRK35ZS-WFT | SRC35ZS-W2		
SRK50ZS-WF | SRC50ZS-W		
SRK50ZS-WFB | SRC50ZS-W		
SRK50ZS-WFT | SRC50ZS-W		

Air conditioner series	Model	Gateway
Wall-mounted series SRK-ZS-W	SRK20ZS-W | SRC20ZS-W	MH-2
SRK25ZS-W | SRC25ZS-W2		
SRK35ZS-W | SRC35ZS-W2		
SRK50ZS-W | SRC50ZS-W		
Wall-mounted series SRK-ZTL-W	SRK15ZTL-W | SRC15ZTL-W	MH-2
SRK20ZTL-W | SRC20ZTL-W		
SRK25ZTL-W | SRC25ZTL-W		
SRK35ZTL-W | SRC35ZTL-W		
SRK50ZTL-W | SRC50ZTL-W		
SRK63ZTL-W | SRC63ZTL-W		
SRK71ZTL-W | SRC71ZTL-W		
Floor-standing — SRF-ZS/ZSX	SRF25ZS-W | SRC25ZS-W2	MH-2
SRF35ZS-W | SRC35ZS-W2		
SRF50ZSX-W | SRC50ZSX-W2,-W3		
Ducted — SRR-ZS	SRR25ZS-W | SRC25ZS-W2	MH-2
SRR35ZS-W | SRC35ZS-W2		
SRR50ZS-W | SRC50ZSX-W3		
SRR60ZS-W | SRC60ZSX-W3		

8. Air conditioner functions

The table below lists the air conditioner functions exposed to the smart-home system:

Gateway parameter	Wiren Board Control type	
Status	On Off	▯ 1 - On 0 - Off Displayed as: Channel type - switch
Mode	Heating Cooling Auto Dry Fan	▯ 1 - Heating 2 - Cooling 3 - Auto 4 - Dry 5- Fan Displayed as: Channel type - range
Status and mode Combined Status and Mode parameter	0 - Air conditioner is off 1 - Air conditioner is heating 2 - Air conditioner is cooling 3 - Air conditioner is in Auto mode 4 - Air conditioner is in Dry mode 5 - Air conditioner is in Fan mode	▯ 0 - Air conditioner is off 1 - Air conditioner is heating 2 - Air conditioner is cooling 3 - Air conditioner is in Auto mode 4 - Air conditioner is in Dry mode 5 - Air conditioner is in Fan mode Displayed as: Channel type - range
Indoor air temperature	Current temperature measured by the air conditioner	▯ Minimum - -30 Maximum - 50 Displayed as: Channel type - temperature value
Target temperature - desired temperature setpoint	Minimum value: 16 Maximum value: 32	▯ Minimum - 16 Maximum - 31 Displayed as: Channel type - range
Thermostat status	0 - Idle 1 - Heating 2 - Cooling	▯ 0 - Idle 1 - Heating 2 - Cooling Displayed as: Channel type - range
Fan speed	0 - Auto 1 - First speed 2 - Second speed 3 - Third speed 4 - Fourth speed	☑ Hidden by default 0 - Auto 1 - First speed 2 - Second speed 3 - Third speed 4 - Fourth speed Displayed as: Channel type - range
Horizontal louvers - parameter controlling the horizontal louver position (up-down)	0 - Stopped 1 - Swinging 2 - Lower position 3 - Second position 4 - Third position 5 - Fourth position 6 - Upper position	▯ 1 - Swing (up-down) 2 - Lower position 3 - Second position 4 - Third position 5 - Fourth position 6 - Upper position Displayed as: Channel type - range
Vertical louvers - parameter controlling the vertical louver position (left-right)	0 - Stopped 1 - Swing (right-left) 2 - Leftmost position 3 - Left position 4 - Middle position 5 - Right position 6 - Rightmost position	▯ 1 - Swing (right-left) 2 - Leftmost position 3 - Left position 4 - Middle position 5 - Right position 6 - Rightmost position Displayed as: Channel type - range

Gateway parameter	Wiren Board Control type	
Vertical and horizontal louvers parameter controlling vertical and horizontal louver swing	0 - Stopped 1 - Swing (right-left and up-down) 2 - Horizontal louver swing (up-down) 3 - Vertical louver swing (right-left)	□ 0 - Stopped 1 - Swing (right-left and up-down) 2 - Horizontal louver swing (up-down) 3 - Vertical louver swing (right-left) Displayed as: Channel type - range