SM-9

Modbus RTU air-conditioner gateway



SM-9 | Modbus RTU air-conditioner gateway

Gateway for monitoring and controlling compatible Samsung air-conditioning systems through the F3 F4 connector via Modbus RTU with Fast Modbus support. The gateway supports the following air-conditioning brands:
• Samsung

Compatible air-conditioner types Light-commercial split systems Multi-split systems Wall-mounted units Ducted units Cassette units

Product line VENTALEN AIR

Series PRO

Version E

SKU VNACPSM9MBBE

Price €220

Availability On request

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1. Technical specifications

Interface	RS485
Interface isolation	Galvanically isolated
Protocol	Modbus RTU + Fast Modbus; the address is configured in software, and the factory settings are shown on the label
Dimensions	60 × 37 × 16 mm (L × W × H), including label, excluding terminal blocks 78 × 37 × 16 mm (L × W × H), including label and terminal blocks
Box dimensions	90 × 114 × 32 mm (L × W × H)
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
Gateway weight	30 g
Weight (including box)	60 g
Package contents	Box, gateway and air-conditioner connection cable

1.1 Hardware revision

E

Current revision September 2026 – present New gateway platform with Fast Modbus support The gateway is integrated into a single housing without an adapter Revised connector layout

SM-9 revision E (coming soon)

1.2 Device image

SM-9 image for project drawings (coming soon)

Device images for use in your projects SM-9.png (coming soon) SM-9.svg (coming soon) SM-9.pdf (coming soon)

1.3 Package contents

SM-9 package contents (coming soon)

1.4 Device dimensions

SM-9 dimensions (coming soon)

1.5 Ports and buttons

SM-9 ports buttons (coming soon)

2. Appearance

SM-9 product photos (coming soon)

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 F3/F4 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	Active	0 - Disabled 1 - Enabled
4	0x0004	Coil	RW	Bool	Quiet mode	0 - Disabled 1 - Enabled
8	0x0008	Coil	RW	Bool	Sleep mode	0 - Disabled 1 - Enabled
14	0x000E	Coil	RW	Bool	Gentle wind	0 - Disabled 1 - Enabled
20	0x0014	Coil	R	Bool	AC connected	0 - No 1 - Yes
100	0x0064	Coil	RW	Bool	Allow the use of an external temperature sensor	0 - No 1 - Yes
Holding registers						
1	0x0001	Holding	RW	UInt16	Mode	1 - Heat 2 - Cool 3 - Auto 4 - Dry 5 - Fan
2	0x0002	Holding	RW	UInt16	Active mode This register helps integration in systems where disconnect is controlled by the same register as mode.	0 - Off 1 - Heat 2 - Cool 3 - Auto 4 - Dry 5 - Fan
3	0x0003	Holding	RW	SInt16	Indoor air temperature °C By default, this register stores the air temperature measured by the air conditioner's built-in sensor. When the temperature from an external sensor is written to this register, the value will be returned with a correction, which is displayed in register 20.	-6400...6400 To get the temperature, multiply the value by 0.01. For example, 2560 is 25.6 °C.

Address	Register parameter	Description	Values			
4	0x0004	Holding	R	SInt16	Outdoor air temperature °C	-32768...32768 To get the temperature, multiply the value by 0.01. For example, 2560 is 25.6 °C.
5	0x0005	Holding	RW	SInt16	Target temperature °C The temperature is set with an accuracy of 0.5°C.	1600...3100 To get the temperature, multiply the value by 0.01. For example, 2500 is 25.0 °C.
6	0x0006	Holding	R	UInt16	Thermostat state	0 - Idle 1 - Heat 2 - Cool
7	0x0007	Holding	RW	UInt16	Fan speed	0 - Auto 1 - 1 speed 2 - 2 speed 3 - 3 speed
8	0x0008	Holding	RW	UInt16	Smart fan speed This register helps to integrate into systems where only one register can be used for speed control. Enabling the silent and turbo modes does not change the fan speed status (displayed on the air conditioner screen and in Holding register #7)	0 - Auto 1 - Quiet mode 2 - 1 speed 3 - 2 speed 4 - 3 speed
9	0x0009	Holding	RW	UInt16	Horizontal vanes	0 - Stop 1 - Swing 7 - Gentle wind
15	0x000F	Holding	RW	UInt16	Mode (for Loxone)	1 - Auto 2 - Heat 3 - Cool 4 - Dry 5 - Fan
20	0x0014	Holding	RW	SInt16	Temperature correction	-32768...32768 To get the temperature, multiply the value by 0.01. For example, 100 is 1.00 °C.
23	0x0017	Holding	R	SInt16	Indoor heat exchanger temperatur °C	-32768...32768 To get the temperature, multiply the value by 0.01. For example, 100 is 1.00 °C.

Address	Register parameter	Description	Values			
24	0x0018	Holding	R	SInt16	Outdoor heat exchanger temperatur °C	-32768...32768 To get the temperature, multiply the value by 0.01. For example, 100 is 1.00 °C.
Holding registers (service)						
110	0x006E	Holding	RW	SInt16	Baud rate	To get the real speed, you need to multiply the values from the register by 100, to write the desired value, you need to divide it by 100. 96 - 9600 192 - 19200 384 - 38400 576 - 57600 1152 - 115200
111	0x006F	Holding	RW	UInt16	Parity bit	0 - no parity bit (none), 1 - odd, 2 - even.
112	0x0070	Holding	RW	UInt16	Number of stop bits	1, 2
128	0x0080	Holding	RW	UInt16	Modbus address	1...247
200 - 219	0x00C8 - 0x00DB	Holding	R	String	HW Version	SM-9
250 - 265	0x00FA- 0x0109	Holding	R	String	FW Version	0.4.7 and later
270 - 271	0x010E - 0x010F	Holding	R	UInt32	Serial	
290 - 301	0x0122 - 0x012D	Holding	R	String	Signature	ok_sm9e
400 - 420	0x0190 - 0x01A4	Holding	R	String	PROTO Version	2.0.0 - current
656	0x0290	Holding	RW	UInt16	Gateway mode	0 - Listener 1 - Master 2 - Slave
Discrete registers						
0	0x0000	Discrete	R	Bool	Errors count	0 - no errors 1 - errors

5. Useful files

Ventalen SM-9 template for Wiren Board.json (coming soon)

6. Warranty

Warranty period – 6 years from the date of sale through a retail network, authorised reseller or integrator. The warranty period and service life of the gateway are calculated from the date on which the product is delivered to the customer. If that date cannot be established, the periods are calculated from the gateway’s manufacturing date. The warranty does not cover: - gateways or their components showing signs of mechanical damage, liquid ingress, burning or unauthorised opening; - gateways returned without the complete supplied package; - gateways whose malfunction was caused by: a) transport damage, negligent handling or inadequate care; b) incorrect installation or repair by unqualified personnel; c) circumstances beyond the manufacturer’s control, including incorrect bus voltage, fire, flooding or other force-majeure events. Warranty replacement and repair are provided through the seller.

7. Supported air conditioner models

2025

7.1 2025 models

Air conditioner series	Air conditioner model	Gateway
Multi-zone systems		
360° cassette unit	AM045KN4DEH/TK	Modbus: SM-9
AM056KN4DEH/TK		
AM071KN4DEH/TK		
AM090KN4DEH/TK		
AM112KN4DEH/TK		
AM128KN4DEH/TK		
AM140KN4DEH/TK		
Four-way Wind-Free™ cassette unit	AM045NN4DEH/TK	Modbus: SM-9
AM056NN4DEH/TK		
AM071NN4DEH/TK		
AM090NN4DEH/TK		
AM112NN4DEH/TK		
AM128NN4DEH/TK		
AM140NN4DEH/TK		
600 × 600 four-way Wind-Free™ cassette unit	AM022NNNDEH/TK	Modbus: SM-9
AM028NNNDEH/TK		
AM036NNNDEH/TK		
AM045NNNDEH/TK		
AM056NNNDEH/TK		
AM060NNNDEH/TK		
One-way Wind-Free™ cassette unit	AM017NN1PEH/TK	Modbus: SM-9
AM022NN1DEH/EU		
AM028NN1DEH/EU		
AM036NN1DEH/EU		
AM056NN1DEH/TK		
AM071NN1DEH/TK		
Two-way cassette unit	AM056CN2DKH/TK	Modbus: SM-9
AM071CN2DKH/TK		
Low-static-pressure ducted unit	AM017KNLDEH/EU	Modbus: SM-9
AM022KNLDEH/TK		
AM028KNLDEH/TK		
AM036KNLDEH/TK		

Air conditioner series	Air conditioner model	Gateway
AM045MNLDEH/EU		
AM056MNLDEH/EU		
AM071MNLDEH/EU		
Medium-static-pressure ducted unit	AM022DNMDKH/TK	Modbus: SM-9
AM028DNMDKH/TK		
AM036DNMDKH/TK		
AM045DNMDKH/TK		
AM056DNMDKH/TK		
AM071DNMDKH/TK		
AM090DNMDKH/TK		
AM112DNMDKH/TK		
AM128DNMDKH/TK		
AM140DNMDKH/TK		
AM160DNMDKH/TK		
High-static-pressure ducted unit	AM180JNHPKH/TK	Modbus: SM-9
AM224JNHPKH/TK		
AM280FNHDEH/TK		
Ducted unit with 100% fresh-air intake	AM140MNEPEH/TK	Modbus: SM-9
AM220MNEPEH/TK		
AM280MNEPEH/TK		
WindFree wall-mounted unit	AM015TNVDKH/TK	Modbus: SM-9
AM022TNVDKH/TK		
AM028TNVDKH/TK		
AM036TNVDKH/TK		
AM045TNVDKH/TK		
AM056TNVDKH/TK		
AM071TNVDKH/TK		
AM082TNVDKH/TK		
Standard wall-mounted unit	AM015TNQDKH/TK	Modbus: SM-9
AM022TNQDKH/TK		
AM028TNQDKH/TK		
AM036TNQDKH/TK		
AM045TNQDKH/TK		
AM056TNQDKH/TK		

Air conditioner series	Air conditioner model	Gateway
AM071TNQDKH/TK		
AM082TNQDKH/TK		
Console units	AM022KNJDEH/EU	Modbus: SM-9
AM028FNJDEH/EU		
AM036FNJDEH/EU		
AM045KNJDEH/EU		
AM056FNJDEH/EU		
Floor-and-ceiling unit	AM056DNCDKH/TK	Modbus: SM-9
AM071DNCDKH/TK		
Ceiling unit	AM112JNCDKH/EU	Modbus: SM-9
AM140JNCDKH/TK		
Fan coil units		
360° cassette fan-coil unit	AG060MN4PKH/EU	Modbus: SM-9
AG072MN4PKH/EU		
AG090MN4PKH/EU		
AG105MN4PKH/EU		
One-way WindFree cassette fan-coil unit	AG026TN1DKH/EU	Modbus: SM-9
AG032TN1DKH/EU		
AG042TN1DKH/EU		
Four-way WindFree cassette fan-coil unit	AG060AN4DKH/EU	Modbus: SM-9
AG072AN4DKH/EU		
AG090AN4DKH/EU		
AG105AN4DKH/EU		

7.2 2024 models

Air conditioner series	Air conditioner model	Gateway
Multi-split systems (FJM)		
One-way cassette units WindFree	AJ026TN1DKH/EA	Modbus: SM-9
AJ035TN1DKH/EA		
Mini four-way cassette unit	AJ020TNNDKH/EA	Modbus: SM-9
AJ026TNNDKH/EA		
AJ035TNNDKH/EA		
AJ052TNNDKH/EA		
WindFree wall-mounted unit™	AJ020TNAPKH/EA	Modbus: SM-9
AJ025TNAPKH/EA		
AJ035TNAPKH/EA		
AJ050TNAPKH/EA		
AJ068TNAPKH/EA		
Standard wall-mounted unit	AJ020TNTDKH/EA	Modbus: SM-9
AJ025TNTDKH/EA		
AJ035TNTDKH/EA		
AJ050TNTDKH/EA		
AJ068TNTDKH/EA		
Ducted units indoor units	AJ026TNLPKH/EA	Modbus: SM-9
AJ035TNLPKH/EA		
AJ052TNLPKH/EA		
AJ071TNLPKH/EA		
Light-commercial systems		
Cassette units 360	AC071BN6DEH/AF | AC071BXADEH/AF	Modbus: SM-9
AC071BXADEH/AF | AC120BXADEH/AF		
Four-way cassette units units WindFree	AC052BN4DEH/AF | AC052BXADEH/AF	Modbus: SM-9
AC071BN4DEH/AF | AC071BXADEH/AF		
AC100BN4DEH/AF | AC100BXADEH/AF		
AC120BN4DEH/AF | AC120BXADEH/AF		
AC0140BN4DEH/AF | AC140BXADEH/AF		
Mini four-way WindFree cassette units	AC035BNNDEH/AF | AC035BXADEH/AF	Modbus: SM-9
AC052BNNDEH/AF | AC052BXADEH/AF		
Medium-static-pressure ducted units	AC035BNMDEH/AF | AC035BXADEH/AF	Modbus: SM-9

Air conditioner series	Air conditioner model	Gateway
AC052BNMDEH/AF | AC052BXADEH/AF		
AC071BNMDEH/AF | AC071BXADEH/AF		
AC100BNMDEH/AF | AC100BXADEH/AF		
AC120BNMDEH/AF | AC120BXADEH/AF		
AC140BNMDEH/AF | AC140BXADEH/AF		
Ceiling indoor units	AC100BNCDEH/AF | AC100BXADEH/AF	Modbus: SM-9
AC140BNMDEH/AF | AC140BXADEH/AF		
AC160BNCDEH/AF | AC160BXADGH/AF		

2023

7.3 2023 models

Air conditioner series	Air conditioner model	Gateway
Residential systems		
One-way Wind-Free™ cassette unit	AJ026TN1DKH/EA	Modbus: SM-9
AJ035TN1DKH/EA		
Mini four-way cassette unit	AJ020TNNDKH/EA	Modbus: SM-9
AJ026TNNDKH/EA		
AJ035TNNDKH/EA		
AJ052TNNDKH/EA		
WindFree wall-mounted unit™	AJ020TNAPKH/EA	Modbus: SM-9
AJ025TNAPKH/EA		
AJ035TNAPKH/EA		
AJ050TNAPKH/EA		
AJ068TNAPKH/EA		
Standard wall-mounted unit	AJ020TNTDKH/EA	Modbus: SM-9
AJ025TNTDKH/EA		
AJ035TNTDKH/EA		
AJ050TNTDKH/EA		
AJ068TNTDKH/EA		
Ducted units indoor units	AJ026TNLPKH/EA	Modbus: SM-9
AJ035TNLPKH/EA		
AJ052TNLPKH/EA		
AJ071TNLPKH/EA		
Multi-zone air-conditioning systems		
360° cassette unit	AM045KN4DEH/TK	Modbus: SM-9
AM056KN4DEH/TK		
AM071KN4DEH/TK		
AM090KN4DEH/TK		
AM112KN4DEH/TK		
AM128KN4DEH/TK		
AM140KN4DEH/TK		
Four-way Wind-Free™ cassette unit	AM045NN4DEH/TK	Modbus: SM-9
AM056NN4DEH/TK		
AM071NN4DEH/TK		
AM090NN4DEH/TK		
AM112NN4DEH/TK		

Air conditioner series	Air conditioner model	Gateway
AM128NN4DEH/TK		
AM140NN4DEH/TK		
600 × 600 four-way Wind-Free™ cassette unit	AM022NNNDEH/TK	Modbus: SM-9
AM028NNNDEH/TK		
AM036NNNDEH/TK		
AM045NNNDEH/TK		
AM056NNNDEH/TK		
AM060NNNDEH/TK		
One-way Wind-Free™ cassette unit	AM017NN1PEH/TK	Modbus: SM-9
AM022NN1DEH/TK		
AM028NN1DEH/TK		
AM036NN1DEH/TK		
AM056NN1DEH/TK		
AM071NN1DEH/TK		
Two-way cassette unit	AM056CN2DKH/TK	Modbus: SM-9
AM071CN2DKH/TK		
Low-static-pressure ducted unit	AM017KNLDEH/EU	Modbus: SM-9
AM022KNLDEH/TK		
AM028KNLDEH/TK		
AM036KNLDEH/TK		
AM045KNLDEH/TK		
AM056KNLDEH/TK		
AM071KNLDEH/TK		
Medium-static-pressure ducted unit	AM022KNMDEH/TK	Modbus: SM-9
AM028KNMDEH/TK		
AM036KNMDEH/TK		
AM045KNMDEH/TK		
AM056KNMDEH/TK		
AM071KNMDEH/TK		
AM090KNMDEH/TK		
AM112KNMDEH/TK		
AM128KNMDEH/TK		
AM140KNMDEH/TK		
AM160KNMDEH/TK		

Air conditioner series	Air conditioner model	Gateway
High-static-pressure ducted unit	AM180JNHPKH/TK	Modbus: SM-9
AM224JNHPKH/TK		
AM280FNHDEH/TK		
Ducted unit with 100% fresh-air intake	AM140MNEPEH/TK	Modbus: SM-9
AM220MNEPEH/TK		
AM280MNEPEH/TK		
AR6000H WindFree wall-mounted unit	AM015TNVDKH/TK	Modbus: SM-9
AM022TNVDKH/TK		
AM028TNVDKH/TK		
AM036TNVDKH/TK		
AM045TNVDKH/TK		
AM056TNVDKH/TK		
AM071TNVDKH/TK		
AM082TNVDKH/TK		
AR6000H wall-mounted unit	AM015TNQDKH/TK	Modbus: SM-9
AM022TNQDKH/TK		
AM028TNQDKH/TK		
AM036TNQDKH/TK		
AM045TNQDKH/TK		
AM056TNQDKH/TK		
AM071TNQDKH/TK		
AM082TNQDKH/TK		
Console units	AM028FNJDEH/TK	Modbus: SM-9
AM036FNJDEH/TK		
AM056FNJDEH/TK		
Floor-and-ceiling unit	AM056FNCDEH/TK	Modbus: SM-9
AM071FNCDEH/TK		
Ceiling unit	AM112JNCDKH/TK	Modbus: SM-9
AM140JNCDKH/TK		
Concealed console unit	AM036FNFDEH/TK	Modbus: SM-9
AM056FNFDEH/TK		
AM071FNFDEH/TK		
Multi-split systems (FJM)		
One-way cassette unit	AJ026TN1DKH/EA	Modbus: SM-9

Air conditioner series	Air conditioner model	Gateway
AJ035TN1DKH/EA		
Mini four-way cassette unit	AJ020TNNDKH/EA	Modbus: SM-9
AJ026TNNDKH/EA		
AJ035TNNDKH/EA		
AJ052TNNDKH/EA		
WindFree wall-mounted unit™	AJ020TNAPKH/EA	Modbus: SM-9
AJ025TNAPKH/EA		
AJ035TNAPKH/EA		
AJ050TNAPKH/EA		
AJ068TNAPKH/EA		
Standard wall-mounted unit	AJ020TNTDKH/EA	Modbus: SM-9
AJ025TNTDKH/EA		
AJ035TNTDKH/EA		
AJ050TNTDKH/EA		
AJ068TNTDKH/EA		
Ducted units indoor units	AJ026TNLPKH/EA	Modbus: SM-9
AJ035TNLPKH/EA		
AJ052TNLPKH/EA		
AJ071TNLPKH/EA		

2022

7.4 2022 models

Air conditioner series	Air conditioner model	Gateway
Multi-zone air-conditioning systems		
360° cassette unit	AM045KN4DEH/TK	Modbus: SM-9
AM056KN4DEH/TK		
AM071KN4DEH/TK		
AM090KN4DEH/TK		
AM112KN4DEH/TK		
AM128KN4DEH/TK		
AM140KN4DEH/TK		
Four-way Wind-Free™ cassette unit	AM045NN4DEH/TK	Modbus: SM-9
AM056NN4DEH/TK		
AM071NN4DEH/TK		
AM090NN4DEH/TK		
AM112NN4DEH/TK		
AM128NN4DEH/TK		
AM140NN4DEH/TK		
600 × 600 four-way Wind-Free™ cassette unit	AM022NNNDEH/TK	Modbus: SM-9
AM028NNNDEH/TK		
AM036NNNDEH/TK		
AM045NNNDEH/TK		
AM056NNNDEH/TK		
AM060NNNDEH/TK		
One-way Wind-Free™ cassette unit	AM017NN1PEH/TK	Modbus: SM-9
AM022NN1DEH/TK		
AM028NN1DEH/TK		
AM036NN1DEH/TK		
AM056NN1DEH/TK		
AM071NN1DEH/TK		
Two-way cassette unit	AM056FN2DEH/TK	Modbus: SM-9
AM071FN2DEH/TK		
Low-static-pressure ducted unit	AM017KNLDEH/EU	Modbus: SM-9
AM022KNLDEH/TK		
AM028KNLDEH/TK		
AM036KNLDEH/TK		

Air conditioner series	Air conditioner model	Gateway
AM045KNLDEH/TK		
AM056KNLDEH/TK		
AM071KNLDEH/TK		
Medium-static-pressure ducted unit	AM022KNMDEH/TK	Modbus: SM-9
AM028KNMDEH/TK		
AM036KNMDEH/TK		
AM045KNMDEH/TK		
AM056KNMDEH/TK		
AM071KNMDEH/TK		
AM090KNMDEH/TK		
AM112KNMDEH/TK		
AM128KNMDEH/TK		
AM140KNMDEH/TK		
AM160KNMDEH/TK		
High-static-pressure ducted unit	AM180JNHPKH/TK	Modbus: SM-9
AM224JNHPKH/TK		
AM280FNHDEH/TK		
Ducted unit with 100% fresh-air intake	AM140HNEPEH/TK	Modbus: SM-9
AM220HNEPEH/TK		
AM280HNEPEH/TK		
AR6000H WindFree wall-mounted unit	AM015TNVDKH/TK	Modbus: SM-9
AM022TNVDKH/TK		
AM028TNVDKH/TK		
AM036TNVDKH/TK		
AM045TNVDKH/TK		
AM056TNVDKH/TK		
AM071TNVDKH/TK		
AM082TNVDKH/TK		
Multi-split systems (FJM)		
One-way cassette unit	AJ026TN1DKH/EA	Modbus: SM-9
AJ035TN1DKH/EA		
Mini four-way cassette unit	AJ020TNNDKH/EA	Modbus: SM-9
AJ026TNNDKH/EA		
AJ035TNNDKH/EA		

Air conditioner series	Air conditioner model	Gateway
AJ052TNNDKH/EA		
WindFree wall-mounted unit™	AJ020TNAPKH/EA	Modbus: SM-9
AJ025TNAPKH/EA		
AJ035TNAPKH/EA		
AJ050TNAPKH/EA		
AJ068TNAPKH/EA		
Standard wall-mounted unit	AJ020TNTDKH/EA	Modbus: SM-9
AJ025TNTDKH/EA		
AJ035TNTDKH/EA		
AJ050TNTDKH/EA		
AJ068TNTDKH/EA		
Ducted units indoor units	AJ026TNLPKH/EA	Modbus: SM-9
AJ035TNLPKH/EA		
AJ052TNLPKH/EA		
AJ071TNLPKH/EA		

2020

7.5 2020 models

Air conditioner series	Air conditioner model	Gateway
Light-commercial systems split systems CAC		
Series 360°	AC071MN4PKH/EU| AC071MXADKH/EU	Modbus: SM-9
AC090MN4PKH/EU| AC090MXADKH/EU		
AC100MN4PKH/EU| AC100MXADKH/EU		
AC100MN4PKH/EU| AC100MXADNH/EU		
AC120MN4PKH/EU| AC120MXADKH/EU		
AC120MN4PKH/EU| AC120MXADNH/EU		
AC140MN4PKH/EU| AC140MXADKH/EU		
Four-way Wind-Free cassette unit	AC052NN4DKH/EU	Modbus: SM-9
AC071NN4DKH/EU		
AC100NN4DKH/EU		
AC120NN4DKH/EU		
AC140NN4DKH/EU		
Mini four-way Wind-Free cassette unit	AC026NNNDKH/EU	Modbus: SM-9
AC035NNNDKH/EU		
AC052NN4DKH/EU		
AC071NN4DKH/EU		
Ducted unit	AC052MNMDKH/EU| AC052MXADKH/EU	Modbus: SM-9
AC071MNMDKH/EU| AC071MXADKH/EU		
AC100MNMDKH/EU| AC100MXADKH/EU		
AC120MNMDKH/EU| AC120MXADKH/EU		
AC140MNMDKH/EU| AC140MXADKH/EU		
Floor-ceiling units indoor units	AC052MNCDKH/EU| AC052MXADKH/EU	Modbus: SM-9
AC071MNCDKH/EU| AC071MXADKH/EU		
Ceiling indoor units	AC100MNCDKH/EU| AC100MXADKH/EU	Modbus: SM-9
AC120MNCDKH/EU| AC120MXADKH/EU		
AC140MNCDKH/EU| AC140MXADKH/EU		
Multi-zone systems		

Air conditioner series	Air conditioner model	Gateway
360° cassette unit	AM045KN4DEH/TK	Modbus: SM-9
AM056KN4DEH/TK		
AM071KN4DEH/TK		
AM090KN4DEH/TK		
AM112KN4DEH/TK		
AM128KN4DEH/TK		
AM140KN4DEH/TK		
Four-way Wind-Free™ cassette unit	AM045NN4DEH/TK	Modbus: SM-9
AM056NN4DEH/TK		
AM071NN4DEH/TK		
AM090NN4DEH/TK		
AM112NN4DEH/TK		
AM128NN4DEH/TK		
AM140NN4DEH/TK		
Mini four-way Wind-Free™ cassette unit	AM022NNNDEH/TK	Modbus: SM-9
AM028NNNDEH/TK		
AM036NNNDEH/TK		
AM045NNNDEH/TK		
AM056NNNDEH/TK		
AM060NNNDEH/TK		
One-way Wind-Free™ cassette unit	AM017NN1PEH/TK	Modbus: SM-9
AM022NN1DEH/TK		
AM028NN1DEH/TK		
AM036NN1DEH/TK		
AM056NN1DEH/TK		
AM071NN1DEH/TK		
Two-way cassette unit	AM056FN2DEH/TK	Modbus: SM-9
AM071FN2DEH/TK		
Low-static-pressure LSP ducted unit (with built-in condensate drain pump)	AM017KNLDEH/EU	Modbus: SM-9
AM022KNLDEH/TK		
AM028KNLDEH/TK		
AM036KNLDEH/TK		
AM045KNLDEH/TK		
AM056KNLDEH/TK		

Air conditioner series	Air conditioner model	Gateway
AM071KNLDEH/TK		
Medium-static-pressure MSP ducted unit (with built-in condensate drain pump)	AM022KNMDEH/TK	Modbus: SM-9
AM028KNMDEH/TK		
AM036KNMDEH/TK		
AM045KNMDEH/TK		
AM056KNMDEH/TK		
AM071KNMDEH/TK		
AM090KNMDEH/TK		
AM112KNMDEH/TK		
AM128KNMDEH/TK		
AM140KNMDEH/TK		
AM160KNMDEH/TK		
High-static-pressure ducted unit	AM180JNHPKH/TK	Modbus: SM-9
AM224JNHPKH/TK		
AM280FNHDEH/TK		
High-static-pressure ducted unit with 100% fresh-air intake	AM140HNEPEH/TK	Modbus: SM-9
AM220HNEPEH/TK		
AM280HNEPEH/TK		
AR5000 wall-mounted unit	AM015JNVDEH/TK	Modbus: SM-9
AM022JNVDEH/TK		
AM028JNVDEH/TK		
AM036JNVDEH/TK		
AM045JNVDEH/TK		
AM056JNVDEH/TK		
AM0171JNVDEH/TK		
AM082JNVDEH/TK		
Boracay wall-mounted unit	AM022KNQDEH/TK	Modbus: SM-9
AM028KNQDEH/TK		
AM036KNQDEH/TK		
AM045KNQDEH/TK		
AM056KNQDEH/TK		
AM071KNQDEH/TK		
Console units	AM028FNJDEH/TK	Modbus: SM-9

Air conditioner series	Air conditioner model	Gateway
AM036FNJDEH/TK		
AM056FNJDEH/TK		
Floor-and-ceiling unit	AM056FNCDEH/TK	Modbus: SM-9
AM071FNCDEH/TK		
Ceiling units	AM112JNCDKH/TK	Modbus: SM-9
AM140JNCDKH/TK		
Concealed console unit	AM036FNFDEH/TK	Modbus: SM-9
AM056FNFDEH/TK		
AM071FNFDEH/TK		

2019

7.6 2019 models

Air conditioner series	Air conditioner model	Gateway
Light-commercial systems split systems CAC		
Series 360°	AC071MN4PKH/EU| AC071MXADKH/EU	Modbus: SM-9
AC090MN4PKH/EU| AC090MXADKH/EU		
AC100MN4PKH/EU| AC100MXADKH/EU		
AC100MN4PKH/EU| AC100MXADNH/EU		
AC120MN4PKH/EU| AC120MXADKH/EU		
AC120MN4PKH/EU| AC120MXADNH/EU		
AC140MN4PKH/EU| AC140MXADKH/EU		
Four-way cassette unit	AC052JN4DEH/AF| AC052JX4DEH/AF	Modbus: SM-9
AC071JN4DEH/AF| AC071JX4DEH/AF		
AC090JN4DEH/AF| AC090JX4DEH/AF		
AC100JN4DEH/AF| AC100JX4DEH/AF		
AC100JN4DEH/AF| AC100JX4DGH/AF		
AC120JN4DEH/AF| AC120JX4DGH/AF		
AC140JN4DEH/AF| AC140JX4DGH/AF		
Mini four-way cassette indoor unit	AC026JNNDEH/AF| AC026JXNDEH/AF	Modbus: SM-9
AC035JNNDEH/AF| AC035JXNDEH/AF		
AC052JNNDEH/AF| AC052JXNDEH/AF		
Medium-static-pressure ducted unit	AC035JNMDEH/AF| AC035JXMDEH/AF	Modbus: SM-9
AC052JNMDEH/AF| AC052JXMDEH/AF		
AC071JNMDEH/AF| AC071JXMDEH/AF		
AC090JNMDEH/AF| AC090JXMDEH/AF		
AC100JNMDEH/AF| AC100JXMDEH/AF		
AC120JNMDEH/AF| AC120JXMDGH/AF		
AC140JNMDEH/AF| AC140JXMDGH/AF		
AC160JNMDEH/AF| AC160JXMDGH/AF		
Multi-zone systems		
360° cassette unit	AM045KN4DEH/TK	Modbus: SM-9
AM056KN4DEH/TK		
AM071KN4DEH/TK		
AM090KN4DEH/TK		
AM112KN4DEH/TK		

Air conditioner series	Air conditioner model	Gateway
AM128KN4DEH/TK		
AM140KN4DEH/TK		
Four-way Wind-Free™ cassette unit	AM045NN4DEH/TK	Modbus: SM-9
AM056NN4DEH/TK		
AM071NN4DEH/TK		
AM090NN4DEH/TK		
AM112NN4DEH/TK		
AM128NN4DEH/TK		
AM140NN4DEH/TK		
Mini four-way Wind-Free™ cassette unit	AM022NNNDEH/TK	Modbus: SM-9
AM028NNNDEH/TK		
AM036NNNDEH/TK		
AM045NNNDEH/TK		
AM056NNNDEH/TK		
AM060NNNDEH/TK		
One-way Wind-Free™ cassette unit	AM017NN1PEH/TK	Modbus: SM-9
AM022NN1DEH/TK		
AM028NN1DEH/TK		
AM036NN1DEH/TK		
AM056NN1DEH/TK		
AM071NN1DEH/TK		
Two-way cassette unit	AM056FN2DEH/TK	Modbus: SM-9
AM071FN2DEH/TK		
Low-static-pressure LSP ducted unit (with built-in condensate drain pump)	AM017KNLDEH/EU	Modbus: SM-9
AM022KNLDEH/TK		
AM028KNLDEH/TK		
AM036KNLDEH/TK		
AM045KNLDEH/TK		
AM056KNLDEH/TK		
AM071KNLDEH/TK		
AM090KNLDEH/TK		
AM112KNLDEH/TK		
AM128KNLDEH/TK		
AM140KNLDEH/TK		

Air conditioner series	Air conditioner model	Gateway
Medium-static-pressure MSP ducted unit (with built-in condensate drain pump)	AM022KNMDEH/TK	Modbus: SM-9
AM028KNMDEH/TK		
AM036KNMDEH/TK		
AM045KNMDEH/TK		
AM056KNMDEH/TK		
AM071KNMDEH/TK		
AM090KNMDEH/TK		
AM112KNMDEH/TK		
AM128KNMDEH/TK		
AM140KNMDEH/TK		
AM160KNMDEH/TK		
High-static-pressure HSP ducted unit	AM071HNMPKH/TK	Modbus: SM-9
AM090HNMPKH/TK		
AM112HNHPKH/TK		
AM128HNHPKH/TK		
AM140HNHPKH/TK		
AM180JNHPKH/TK		
AM224JNHPKH/TK		
AM280FNHDEH/TK		
AR5000 wall-mounted unit	AM015JNVDEH/TK	Modbus: SM-9
AM022JNVDEH/TK		
AM028JNVDEH/TK		
AM036JNVDEH/TK		
AM045JNVDEH/TK		
AM056JNVDEH/TK		
AM0171JNVDEH/TK		
AM082JNVDEH/TK		
Boracay wall-mounted unit	AM022KNQDEH/TK	Modbus: SM-9
AM028KNQDEH/TK		
AM036KNQDEH/TK		
AM045KNQDEH/TK		
AM056KNQDEH/TK		
AM071KNQDEH/TK		
Floor-standing units	AM022KNJDEH/TK	Modbus: SM-9

Air conditioner series	Air conditioner model	Gateway
AM028FNJDEH/TK		
AM036FNJDEH/TK		
AM045KNJDEH/TK		
AM056FNJDEH/TK		
Floor-and-ceiling unit	AM056FNCDEH/TK	Modbus: SM-9
AM071FNCDEH/TK		
Concealed console unit	AM036FNFDEH/TK	Modbus: SM-9
AM056FNFDEH/TK		
AM071FNFDEH/TK		

2018

7.7 2018 models

Air conditioner series	Air conditioner model	Gateway
Multi-zone systems		
360° cassette unit	AM045KN4DEH/TK	Modbus: SM-9
AM056KN4DEH/TK		
AM071KN4DEH/TK		
AM090KN4DEH/TK		
AM112KN4DEH/TK		
AM128KN4DEH/TK		
AM140KN4DEH/TK		
Four-way cassette unit	AM045FN4DEH/TK	Modbus: SM-9
AM056FN4DEH/TK		
AM071FN4DEH/TK		
AM090FN4DEH/TK		
AM112FN4DEH/TK		
AM128FN4DEH/TK		
AM140FN4DEH/TK		
Mini four-way cassette unit (600 × 600)	AM022FNNDEH/TK	Modbus: SM-9
AM028FNNDEH/TK		
AM036FNNDEH/TK		
AM045FNNDEH/TK		
AM056FNNDEH/TK		
AM060FNNDEH/TK		
One-way cassette unit Slim	AM022FN1DEH/TK	Modbus: SM-9
AM028FN1DEH/TK		
AM036FN1DEH/TK		
AM056JN1DEH/TK		
AM071JN1DEH/TK		
Two-way cassette unit	AM056FN2DEH/TK	Modbus: SM-9
AM071FN2DEH/TK		
Ducted unit Slim	AM017FNLDEH/TK	Modbus: SM-9
AM022FNLDEH/TK		
AM028FNLDEH/TK		
AM036FNLDEH/TK		
AM045FNLDEH/TK		

Air conditioner series	Air conditioner model	Gateway
AM056FNLDEH/TK		
AM071FNLDEH/TK		
AM090FNLDEH/TK		
AM112FNLDEH/TK		
AM128FNLDEH/TK		
AM140FNLDEH/TK		
Ducted unit MSP	AM022FNMDEH/TK	Modbus: SM-9
AM028FNMDEH/TK		
AM036FNMDEH/TK		
AM045FNMDEH/TK		
AM056FNMDEH/TK		
AM071FNMDEH/TK		
AM090FNMDEH/TK		
AM112FNMDEH/TK		
AM128FNMDEH/TK		
AM140FNMDEH/TK		
AM160KNMDEH/TK		
Ducted unit HSP	AM112FNHDEH/TK	Modbus: SM-9
AM128FNHDEH/TK		
AM140FNHDEH/TK		
AM220FNHDEH/TK		
AM224JNHPKH/TK		
AM280FNHDEH/TK		
HSP ducted unit with 100% fresh-air intake	AM140HNEPEH/TK	Modbus: SM-9
AM220HNEPEH/TK		
AM280HNEPEH/TK		
Boracay wall-mounted unit	AM022KN4DEH/TK	Modbus: SM-9
AM028KN4DEH/TK		
AM036KN4DEH/TK		
AM045KN4DEH/TK		
AM056KN4DEH/TK		
AM071KN4DEH/TK		
A3050 wall-mounted unit	AM015JNVDEH/TK	Modbus: SM-9
AM022JNVDEH/TK		

Air conditioner series	Air conditioner model	Gateway
AM028JNVDEH/TK		
AM036JNVDEH/TK		
AM045JNVDEH/TK		
AM056JNVDEH/TK		
AM071JNVDEH/TK		
AM082JNVDEH/TK		
Console unit	AM022KNJDEH/TK	Modbus: SM-9
AM028FNJDEH/TK		
AM036FNJDEH/TK		
AM045KNJDEH/TK		
AM056FNJDEH/TK		
Floor-and-ceiling unit	AM056FNCDEH/TK	Modbus: SM-9
AM071FNCDEH/TK		
AM112JNCDKH/TK		
AM140JNCDKH/TK		
Concealed console unit	AM036FNFDEH/TK	Modbus: SM-9
AM056FNFDEH/TK		
AM071FNFDEH/TK		

8. Air conditioner functions

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

Gateway parameter	Wiren Board Control type	Loxone	Larnitech	Home Assistant	
Status	On Off	1 - On 0 - Off Displayed as: Channel type - switch	1 - On 0 - Off Displayed as: States - Air conditioner status	1 - On 0 - Off Displayed as: Channel type - air conditioner widget	1 - On 0 - Off Displayed as: Sensor - air conditioner connected
Mode	Heating Cooling Auto Fan Dry	1 - Heating 2 - Cooling 3 - Auto 4 - Fan 5 - Dry Displayed as: Channel type - range	1 - Auto 2 - Heating 3 - Cooling 4 - Dry 5 - Fan Displayed as: Channel type - range	1 - Fan 2 - Cooling 3 - Dry 4 - Heating 5 - Auto Displayed as: Channel type - air conditioner widget	✖ Not used

Gateway parameter	Wiren Board Control type	Loxone	Larnitech	Home Assistant	
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 Fan mode 5 - Air conditioner is in Dry 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	✖ Not used	✖ Not used	□ 0 - Air conditioner is off 1 - Heating 2 - Cooling 3 - Auto 4 - Fan 5 - Dry Displayed as: List - mode
Indoor air temperature	Current temperature measured by the air conditioner	□ Minimum - -20 Maximum - 50 Displayed as: Channel type - temperature value	□	□	□ Displayed as: Device widget - indoor temperature
Target temperature - desired temperature setpoint	Minimum value: 16 Maximum value: 30	□ Minimum - 16 Maximum - 30 Displayed as: Channel type - range	□ Minimum - 1 Maximum - 40 Displayed as: Service type - Air conditioner Characteristic - target temperature	□ Minimum - 16 Maximum - 30 Displayed as: Channel type - air conditioner widget	□ Minimum - 16 Maximum - 30 Displayed as: Device widget - range
Thermostat status	0 - Idle 1 - Heating 2 - Cooling	□ 0 - Idle 1 - Heating 2 - Cooling Displayed as: Channel type - range	✖ Not used	✖ Not used	✖ Not used
Fan speed	0 - Auto 1 - First speed 2 - Second speed 3 - Third speed	☑ Hidden by default 0 - Auto 1 - First speed 2 - Second speed 3 - Third speed Displayed as: Channel type - range	□ 0 - Auto 1 - First speed 2 - Second speed 3 - Third speed Displayed as: Channel type - range	□ 0 - Auto 1 - First speed 2 - Second speed 3 - Third speed Displayed as: Channel type - air conditioner widget	□ 0 - Auto 1 - First speed 2 - Second speed 3 - Third speed Displayed as: Channel type - air conditioner widget
Extended fan speed	1 - Quiet mode 2 - First speed 3 - Second speed 4 - Third speed	□ 0 - Auto 1 - Quiet mode 2 - First speed 3 - Second speed 4 - Third speed Displayed as: Channel type - range	✖ Not used	✖ Not used	"□ 0 - Auto 1 - Quiet mode 2 - First speed 3 - Second speed 4 - Third speed Displayed as: List - extended fan speed
Horizontal louvers - parameter controlling the horizontal louver position (up-down)	0 - Stopped 1 - Swinging	□ 0 - Stopped 1 - Swing (up-down) Displayed as: Channel type - range	□ 0 - Stopped 1 - Swing (up-down) Displayed as: Service type - radio buttons	□ 0 - Stopped 1 - Swing (up-down) Displayed as: Channel type - air conditioner widget	□ 0 - Stopped 1 - Swing (up-down) Displayed as: List - horizontal louvers
Sleep mode	1 - On 0 - Off	□ 1 - On 0 - Off Displayed as: Channel type - switch	□ 1 - On 0 - Off Displayed as: Channel type - switch	□ 1 - On 0 - Off Displayed as: Switch - Sleep mode	□ 1 - On 0 - Off Displayed as: Switch - Sleep mode

Gateway parameter	Wiren Board Control type	Loxone	Larnitech	Home Assistant	
Mode Quiet	1 - On 0 - Off	✓ 1 - On 0 - Off Displayed as: Channel type - switch	✓ 1 - On 0 - Off Displayed as: Channel type - switch	✓ 1 - On 0 - Off Displayed as: Channel type - switch	✓ 1 - On 0 - Off Displayed as: Switch - quiet mode
Gentle airflow	1 - On 0 - Off	✓ 1 - On 0 - Off Displayed as: Channel type - switch	✖ Not used	✖ Not used	✓ 1 - On 0 - Off Displayed as: Switch - Gentle airflow
External temperature sensor	Parameter showing the current temperature measured by an external sensor	✓ Minimum - 0 Maximum - 50 Displayed as: Channel type - temperature value	✖ Not used	✖ Not used	✖ Not used
Temperature correction	Service parameter	✓ Displayed as: Channel type - value	✓ Displayed as: Channel type - Air conditioner Advanced settings - Hysteresis	✖ Not used	✖ Not used