MH-8

Modbus gateway for Mitsubishi Heavy Industries air conditioners

Ventalen MH-8 gateway for monitoring and controlling compatible Mitsubishi Heavy Industries air conditioners through the XYZ connector via Modbus RTU.

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
Gateway 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
Adapter dimensions	40 × 31 × 13 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
Weight (including box)	105 g
Package contents	Box, gateway, MH-A8 adapter, adapter cable and air-conditioner cable

1.1 Hardware revision

Gateway 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

MH-8 revision B (coming soon)

1.2 Device image

Device images for use in your projects MH-8.png (coming soon) MH-8.svg (coming soon) MH-8.pdf (coming soon)

Device images for use in your projects MH-A8.png (coming soon) MH-A8.svg (coming soon) MH-A8.pdf (coming soon)

1.3 Package contents

MH-8 package contents (coming soon)

1.4 Device dimensions

MH-8 dimensions (coming soon)

1.5 Ports and buttons

MH-8 ports buttons (coming soon)

2. Appearance

MH-8 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 MH-A8 adapter - Connect the MH-A8 adapter to the XYZ connector on the Mitsubishi Heavy Industries air conditioner - Use the recommended power supply for the gateway - 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	0x01	Coil	RW	Bool	Air conditioner status	0 - Off 1 - On
20	0x13	Coil	R	Bool	Air conditioner online	0 - No 1 - Yes
100	0x64	Coil	RW	Bool	Use an external temperature sensor	0 - No 1 - Yes

Address	Register parameter	Description	Values			
Holding registers						
1	0x01	Holding	RW	UInt16	Operating mode	1 – Heating 2 – Cooling 3 – Auto 4 – Dry 5 - Fan
2	0x02	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	0x03	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.	-2000...5000 Multiply the value by 0.01 to obtain the temperature. For example, 2560 represents 25.6°C
5	0x05	Holding	RW	SInt16	Target temperature °C. Temperature is set in 1°C increments.	1800...3000 Multiply the value by 0.01 to obtain the temperature. For example, 2500 represents 25.0°C
6	0x06	Holding	R	UInt16	Current mode	0 – Idle 1 – Heating 2 – Cooling
7	0x07	Holding	RW	UInt16	Fan speed	0 - Auto 1 - First speed 2 - Second speed 3 - Third speed
9	0x09	Holding	RW	UInt16	Horizontal louvers Position 1 is the lowest Position 5 is the highest	0 - Stopped 1 - Swinging 2 - Lower position 3 - Lower-middle position 4 - Upper-middle position 5 - Upper position
20		Holding	RW	SInt16	Temperature correction	-32768...32768 Multiply the value by 0.01 to obtain the temperature. For example, 100 represents 1.00°C
Holding registers (service)						

Address	Register parameter	Description	Values			
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	R	UInt16	RS-485 port parity setting	0 — no parity (none) Other values are not supported.
112	0x0070	Holding	R	UInt16	RS-485 port stop bits	2 Other values are not supported.
128	0x0080	Holding	RW	SInt16	Device Modbus address	1...247
200 - 219	0x00C9 - 0x00DB	Holding	R	SInt16	Device hardware revision	MH-8
250 - 265	0x00FA- 0x0109	Holding	R	SInt16	Device firmware version	1.24 or later
Input registers						
0	0x01	Inputs	RW	SInt16	Number of errors	0...24
1	0x02	Inputs	RW	SInt16	Error code	

5. Useful files

Ventalen MH-8 template for Wiren Board.json (coming soon)

Mitsubishi Heavy FDUR508HES-A operating instructions.pdf (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

7.1 2015 models

Air conditioner series	Air conditioner model	Gateway
Split systems		
Wall-mounted series SRK-HE-S1	SRK63HE-S1 | SRC63HE-S1	Modbus: MH-8
SRK71HE-S1 | SRC71HE-S1		

7.2 2014 models

Air conditioner series	Air conditioner model	Gateway
Split systems		
Wall-mounted series SRK-HE-S1	SRK63HE-S1 | SRC63HE-S1	Modbus: MH-8
SRK71HE-S1 | SRC71HE-S1		

7.3 2013 models

Air conditioner series	Air conditioner model	Gateway
Split systems		
Wall-mounted series SRK-HE-S1	SRK63HE-S1 | SRC63HE-S1	Modbus: MH-8
SRK71HE-S1 | SRC71HE-S1		

7.4 2012 models

Air conditioner series	Air conditioner model	Gateway
Split systems		
Wall-mounted series SRK-HE	SRK63HE-S1 | SRC63HE-S1	Modbus: MH-8
SRK71HE-S1 | SRC71HE-S1		

7.5 2011 models

Air conditioner series	Air conditioner model	Gateway
Split systems		
Wall-mounted series SRK-HE-S1	SRK63HE-S1 | SRC63HE-S1	Modbus: MH-8
SRK71HE-S1 | SRC71HE-S1		

7.6 2010 models

Air conditioner series	Air conditioner model	Gateway
Split systems		
Wall-mounted series SRK-ZE-S	SRK63ZE-S1 | SRC63ZE-S1	Modbus: MH-8
SRK71ZE-S1 | SRC71ZE-S1		
Wall-mounted series SRK-HE-S1	SRK63HE-S1 | SRC63HE-S1	Modbus: MH-8
SRK71HE-S1 | SRC71HE-S1		
Wall-mounted series SRK-HE	SRK52HE | SRC52HE	Modbus: MH-8

Air conditioner series	Air conditioner model	Gateway
SRK63HE | SRC63HE		
SRK71HE | SRC71HE		
Multi-split systems		
Wall-mounted series SKM	SKM60ZG-S	Modbus: MH-8
SKM71ZG-S		
Ducted — SRRM	SRRM25ZF-S	Modbus: MH-8
SRRM35ZF-S		
SRRM50ZF-S		
SRRM60ZF-S		
Cassette — STM	STM25ZF-S	Modbus: MH-8
STM35ZF-S		
STM50ZF-S		
STM60ZF-S		

7.7 2009 models

Air conditioner series	Air conditioner model	Gateway
Split systems		
Wall-mounted series SRK-ZE-S	SRK63ZE-S1 | SRC63ZE-S1	Modbus: MH-8
SRK71ZE-S1 | SRC71ZE-S1		
Wall-mounted series SRK-HE-S1	SRK63HE-S1 | SRC63HE-S1	Modbus: MH-8
SRK71HE-S1 | SRC71HE-S1		
Wall-mounted series SRK-HE	SRK52HE | SRC52HE	Modbus: MH-8
SRK63HE | SRC63HE		
SRK71HE | SRC71HE		
Multi-split systems		
Wall-mounted series SKM	SKM60ZG-S	Modbus: MH-8
SKM71ZG-S		
Ducted — SRRM	SRRM25ZF-S	Modbus: MH-8
SRRM35ZF-S		
SRRM50ZF-S		
SRRM60ZF-S		
Cassette — STM	STM25ZF-S	Modbus: MH-8
STM35ZF-S		
STM50ZF-S		
STM60ZF-S		

7.8 2008 models

Air conditioner series	Air conditioner model	Gateway
Split systems		
Wall-mounted series SRK-ZE-S	SRK63ZE-S1 | SRC63ZE-S1	Modbus: MH-8
SRK71ZE-S1 | SRC71ZE-S1		
Wall-mounted series SRK-HE-S1	SRK63HE-S1 | SRC63HE-S1	Modbus: MH-8
SRK71HE-S1 | SRC71HE-S1		
Wall-mounted series SRK-HE	SRK52HE | SRC52HE	Modbus: MH-8
SRK63HE | SRC63HE		
SRK71HE | SRC71HE		
Multi-split systems		
Wall-mounted series SKM	SKM60ZG-S	Modbus: MH-8
SKM71ZG-S		
Ducted — SRRM	SRRM25ZF-S	Modbus: MH-8
SRRM35ZF-S		
SRRM50ZF-S		
SRRM60ZF-S		
Cassette — STM	STM25ZF-S	Modbus: MH-8
STM35ZF-S		
STM50ZF-S		
STM60ZF-S		

7.9 2005 models

Air conditioner series	Air conditioner model	Gateway
Split systems		
Wall-mounted series SRK-Z	SRK63ZE-S	Modbus: MH-8
SRK71ZE-S		
Wall-mounted series SRK-H	SRK63HE-S	Modbus: MH-8
SRK71HE-S		
Wall-mounted series SRK-C	SRK63CE-S	Modbus: MH-8
SRK71CE-S		
Light-commercial split systems		
Cassette — FDTV	FDTVA151HEN	Modbus: MH-8
FDTVA201HEN		
FDTVA251HEN		
Cassette — FDTA	FDTA301HEN	Modbus: MH-8
FDTA301HES		
FDTA401HEN		

Air conditioner series	Air conditioner model	Gateway
FDTA401HES		
FDTA501HES		
FDTA601HES		
Wall-mounted series FDKNV	FDKNVA151HEN	Modbus: MH-8
FDKNVA201HEN		
FDKNVA251HEN		
Wall-mounted series FDKNA	FDKNA301HEN	Modbus: MH-8
FDKNA301HES		
Ceiling-suspended units series FDENV	FDENVA151HEN	Modbus: MH-8
FDENVA201HEN		
FDENVA251HEN		
Ceiling-suspended units series FDENA	FDENA301HEN	Modbus: MH-8
FDENA301HES		
FDENA401HEN		
FDENA401HES		
FDENA501HES		
FDENA601HES		
Ducted — FDURV	FDURVA201HEN	Modbus: MH-8
FDURVA251HEN		
Ducted — FDURA	FDURA301HEN	Modbus: MH-8
FDURA301HES		
FDURA401HEN		
FDURA401HES		
FDURA501HES		
FDURA601HES		
VRF systems		
Wall-mounted series SCM-ZD	STM25ZE-S	Modbus: MH-8
STM35ZE-S		
STM50ZE-S		
STM60ZE-S		
SRRM25ZE-S		
SRRM35ZE-S		
SRRM50ZE-S		
SRRM60ZE-S		
Cassette — FDTA	FDTA151	Modbus: MH-8
FDTA201		
FDTA251		
FDTA301		

Air conditioner series	Air conditioner model	Gateway
FDTA401		
FDTA501		
Floor-ceiling — FDENA	FDENA151	Modbus: MH-8
FDENA201		
FDENA251		
FDENA301		
FDENA401		
FDENA501		
Wall-mounted series FDKNA	FDKNA151	Modbus: MH-8
FDKNA201		
FDKNA251		
FDKNA301		
Ducted — FDURA	FDURA201	Modbus: MH-8
FDURA251		
FDURA301		
FDURA401		
FDURA501		
Cassette — FDTCA	FDTCA22KXE4A	Modbus: MH-8
FDTCA28KXE4A		
FDTCA36KXE4A		
FDTCA45KXE4A		
FDTCA56KXE4A		
Cassette — FDTA	FDTA28KXE4(A)	Modbus: MH-8
FDTA36KXE4(A)		
FDTA45KXE4(A)		
FDTA56KXE4(A)		
FDTA71KXE4(A		
FDTA90KXE4(A)		
FDTA112KXE4(A)		
FDTA140KXE4(A)		
Cassette units two-way series FDTWA	FDTWA28KXE4(A)	Modbus: MH-8
FDTWA45KXE4(A)		
FDTWA56KXE4(A		
FDTWA71KXE4(A)		
FDTWA90KXE4(A)		
FDTWA112KXE4(A)		
FDTWA140KXE4(A)		
One-way cassette units series FDTQA	FDTQA22KXE4(A)	Modbus: MH-8

Air conditioner series	Air conditioner model	Gateway
FDTQA28KXE4(A)		
FDTQA36KXE4(A)		
One-way cassette units series FDTSA	FDTSA22KXE4(A	Modbus: MH-8
FDTSA28KXE4(A)		
FDTSA36KXE4(A)		
FDTSA45KXE4(A)		
FDTSA71KXE4(A)		
Cassette — FDRA	FDRA22KXE4(A)	Modbus: MH-8
FDRA28KXE4(A)		
FDRA45KXE4(A)		
FDRA56KXE4(A)		
FDRA71KXE4(A)		
FDRA90KXE4(A)		
FDRA112KXE4(A)		
FDRA140KXE4(A)		
Ducted — FDQMA	FDQMA22KXE4(A	Modbus: MH-8
FDQMA28KXE4(A)		
FDQMA36KXE4(A)		
Ducted — FDUA	FDUA224KXE4(A)	Modbus: MH-8
FDUA280KXE4(A		
Ducted — FDUMA	FDUMA36KXE4(A)	Modbus: MH-8
FDUMA45KXE4(A)		
FDUMA56KXE4(A)		
FDUMA71KXE4(A)		
FDUMA90KXE4(A)		
FDUMA112KXE4(A)		
FDUMA140KXE4(A)		
Ducted — FDURA	FDURA45KXE4(A)	Modbus: MH-8
FDURA56KXE4(A)		
FDURA71KXE4(A)		
FDURA90KXE4(A)		
FDURA112KXE4(A)		
FDURA140KXE4(A)		
Ducted — FDEA	FDEA36KXE4(A	Modbus: MH-8
FDEA45KXE4(A)		
FDEA56KXE4(A)		
FDEA71KXE4(A)		
FDEA112KXE4(A)		

Air conditioner series	Air conditioner model	Gateway
FDEA140KXE4(A)		
Wall-mounted series FDKA	FDKA22KXE4(A)	Modbus: MH-8
FDKA28KXE4(A)		
FDKA36KXE4(A)		
FDKA45KXE4(A)		
FDKA56KXE4(A)		
FDKA71KXE4(A)		
Floor-standing — FDFLA	FDFLA28KXE4(A	Modbus: MH-8
FDFLA45KXE4(A)		
FDFLA71KXE4(A)		
Floor-standing concealed series FDFUA	FDFUA28KXE4(A)	Modbus: MH-8
FDFUA45KXE4(A)		
FDFUA56KXE4(A)		
FDFUA71KXE4(A)		

7.10 2004 models

Air conditioner series	Air conditioner model	Gateway
Multi-split systems		
Cassette — FDTA	FDTA28KXE4	Modbus: MH-8
FDTA36KXE4		
FDTA45KXE4		
FDTA56KXE4		
FDTA71KXE4		
FDTA90KXE4		
FDTA112KXE4		
FDTA140KXE4		
Cassette units two-way series FDTWA	FDTWA28KXE4	Modbus: MH-8
FDTWA45KXE4		
FDTWA56KXE4		
FDTWA71KXE4		
FDTWA90KXE4		
FDTWA112KXE4		
FDTWA140KXE4		
One-way cassette units series FDTQA	FDTQA22KXE4	Modbus: MH-8
FDTQA28KXE4		
FDTQA36KXE4		
One-way cassette units series FDTSA	FDTSA28KXE4	Modbus: MH-8

Air conditioner series	Air conditioner model	Gateway
FDTSA36KXE4		
FDTSA45KXE4		
FDTSA71KXE4		
Cassette — FDRA	FDRA22KXE4	Modbus: MH-8
FDRA28KXE4		
FDRA45KXE4		
FDRA56KXE4		
FDRA71KXE4		
FDRA90KXE4		
FDRA112KXE4		
FDRA140KXE4		
Ducted — FDQMA	FDQMA22KXE4	Modbus: MH-8
FDQMA28KXE4		
FDQMA36KXE4		
Ducted — FDUMA	FDUMA45KXE4	Modbus: MH-8
FDUMA56KXE4		
FDUMA71KXE4		
FDUMA90KXE4		
FDUMA112KXE4		
FDUMA140KXE4		
Ducted — FDURA	FDURA45KXE4	Modbus: MH-8
FDURA56KXE4		
FDURA71KXE4		
FDURA90KXE4		
FDURA112KXE4		
FDURA140KXE4		
Ducted — FDEA	FDEA36KXE4	Modbus: MH-8
FDEA45KXE4		
FDEA56KXE4		
FDEA71KXE4		
FDEA112KXE4		
FDEA140KXE4		
Wall-mounted series FDKA	FDKA22KXE4	Modbus: MH-8
FDKA28KXE4		
FDKA36KXE4		
FDKA45KXE4		
FDKA56KXE4		
FDKA71KXE4		

Air conditioner series	Air conditioner model	Gateway
Floor-standing — FDFLA	FDFLA28KXE4	Modbus: MH-8
FDFLA45KXE4		
FDFLA71KXE4		
Floor-standing concealed series FDFUA	FDFUA28KXE4	Modbus: MH-8
FDFUA45KXE4		
FDFUA56KXE4		
FDFUA71KXE4		

7.11 2003 models

Air conditioner series	Air conditioner model	Gateway
Light-commercial split systems		
Ducted — FDUP-H	FDUP808HES-S	Modbus: MH-8
FDUP1008HES-S		
Multi-split systems		
Four-way cassette units series MULTI FDT	FDT208	Modbus: MH-8
FDT258		
FDT308		
FDT408		
FDT508		
Two-way cassette units series MULTI FDR	FDR208	Modbus: MH-8
FDR258		
FDR308		
FDR408		
FDR508		

7.12 2002 models

Air conditioner series	Air conditioner model	Gateway
Multi-split systems		
Four-way cassette units series FDTJ	FDTJ28HKXE2	Modbus: MH-8
FDTJ36HKXE2		
FDTJ45HKXE2		
FDTJ56HKXE2		
FDTJ71HKXE2		
FDTJ90HKXE2		
FDTJ112HKXE2		
FDTJ140HKXE2		
Cassette units two-way series FDTWJ	FDTWJ28HKXE2B	Modbus: MH-8

Air conditioner series	Air conditioner model	Gateway
FDTWJFDTWJ45HKXE2B		
FDTWJFDTWJ56HKXE2B		
FDTWJFDTWJ71HKXE2B		
FDTWJFDTWJ90HKXE2B		
FDTWJFDTWJ112HKXE2B		
FDTWJFDTWJ140HKXE2B		
One-way cassette units series FDTQJ	FDTQJ22KXE3	Modbus: MH-8
FDTQJ28KXE3		
FDTQJ36KXE3		
One-way cassette units series FDTSJ	FDTSJ45KXE2B	Modbus: MH-8
FDTSJ71KXE2B		
Four-way cassette units series FDRJ	FDRJ45HKXE2	Modbus: MH-8
FDRJFDRJ56HKXE2		
FDRJFDRJ71HKXE2		
FDRJFDRJ90HKXE2		
FDRJFDRJ112HKXE2		
FDRJFDRJ140HKXE2		
Ducted — FDUMJ	FDUMJ36HKXE2	Modbus: MH-8
FDUMJFDQMJ45HKXE2		
FDUMJFDQMJ56HKXE2		
FDUMJFDQMJ71HKXE2		
FDUMJFDQMJ90HKXE2		
FDUMJFDQMJ112HKXE2		
FDUMJFDQMJ140HKXE2		
Ceiling-suspended — FDEJ	FDEJ36HKXE2B	Modbus: MH-8
FDEJFDEJ45HKXE2B		
FDEJFDEJ56HKXE2B		
FDEJFDEJ71HKXE2B		
FDEJFDEJ112HKXE2B		
FDEJFDEJ140HKXE2B		
Wall-mounted series FDKJ	FDKJ22HKXE2	Modbus: MH-8
FDKJFDKJ28HKXE2		
FDKJFDKJ36HKXE2		
FDKJFDKJ45HKXE2		
FDKJFDKJ56HKXE2		
FDKJFDKJ71HKXE2		
Floor-standing — FDFLJ	FDFLJ28HKXE2	Modbus: MH-8
FDFLJFDFLJ45HKXE2		

Air conditioner series	Air conditioner model	Gateway
FDFLJFDFLJ71HKXE2		
Floor-standing concealed series FDFUJ	FDFUJ28HKXE2	Modbus: MH-8
FDFLJ45HKXE2		
FDFLJ56HKXE2		
FDFUJ71HKXE2		

7.13 2001 models

Air conditioner series	Air conditioner model	Gateway
Light-commercial split systems		
Ducted — FDUR-H	FDUR208HEN-SA	Modbus: MH-8
FDUR258HEN-SA		
FDUR308HEN-SB		
FDUR308HES-SB		
FDUR408HES-SB		
FDUR508HES-SB		
FDUR308HEN-A		
FDUR308HES-A		
FDUR408HES-A		
FDUR508HES-A		
Ducted — FDUR-C	FDUR308CEN-A	Modbus: MH-8
FDUR308CES-A		
FDUR408CES-A		
FDUR508CES-A		
Cassette — FDT-N-H	FDTN308HEN-SB	Modbus: MH-8
FDTN308HES-SB		
FDTN408HES-SB		
FDTN508HES-SB		
FDT308HEN-SB		
FDT308HES-SB		
FDT408HES-SB		
FDT508HES-SB		
Cassette — FDR-H	FDR308HEN-SB	Modbus: MH-8
FDR308HES-SB		
FDR408HES-SB		
FDR508HES-SB		
Ducted — FDU-H	FDU308HEN-SB	Modbus: MH-8
FDU308HES-SB		

Air conditioner series	Air conditioner model	Gateway
FDU408HES-SB		
FDU508HES-SB		
FDU808HES-SB		
Ducted — FDUM-H	FDUM308HEN-SB	Modbus: MH-8
FDUM308HES-SB		
FDUM408HES-SB		
FDUM508HES-SB		
Floor-ceiling — FDFL-H	FDFL308HEN-SB	Modbus: MH-8
FDFL308HES-SB		
Multi-split systems		
Four-way cassette units series V MULTI FDT	FDT208-A	Modbus: MH-8
FDT258-A		
FDT308-A		
FDT408-A		
FDT508-A		
Cassette units two-way series V MULTI FDR	FDR208-A	Modbus: MH-8
FDR258-A		
FDR308-A		
FDR408-A		
FDR508-A		
Four-way cassette units series FDC-HKX FDT	FDTJ28HKXE2	Modbus: MH-8
FDTJ36HKXE2		
FDTJ45HKXE2		
FDTJ56HKXE2		
FDTJ71HKXE2		
FDTJ90HKXE2		
FDTJ112HKXE2		
FDTJ140HKXE2		
Cassette units two-way series FDC-HKX FDTW	FDTWJ28HKXE2B	Modbus: MH-8
FDTWJ45HKXE2B		
FDTWJ45HKXE2B		
FDTWJ71HKXE2B		
FDTWJ90HKXE2B		
FDTWJ112HKXE2B		
FDTWJ140HKXE2B		
One-way cassette units series FDC-HKX FDTQ	FDTQJ22HKXE2B	Modbus: MH-8
FDTQJ28HKXE2B		
FDTQJ36HKXE2B		

Air conditioner series	Air conditioner model	Gateway
One-way cassette units series FDC-HKX FDTS	FDTSJ45HKXE2B	Modbus: MH-8
FDTSJ71HKXE2B		
Four-way cassette units series FDC-HKX FDR	FDRJ22HKXE2	Modbus: MH-8
FDRJ28HKXE2		
FDRJ45HKXE2		
FDRJ56HKXE2		
FDRJ71HKXE2		
FDRJ90HKXE2		
FDRJ112HKXE2		
FDRJ140HKXE2		
Ducted — FDC-HKX FDUM	FDUMJ36HKXE2	Modbus: MH-8
FDUMJ45HKXE2		
FDUMJ56HKXE2		
FDUMJ71HKXE2		
FDUMJ90HKXE2		
FDUMJ112HKXE2		
FDUMJ140HKXE2		
Ceiling-suspended — FDC-HKX FDE	FDEJ36HKXE2B	Modbus: MH-8
FDEJ45HKXE2B		
FDEJ56HKXE2B		
FDEJ71HKXE2B		
FDEJ112HKXE2B		
FDEJ140HKXE2B		
Wall-mounted series FDC-HKX FDK	FDKJ22HKXE2	Modbus: MH-8
FDKJ28HKXE2		
FDKJ36HKXE2		
FDKJ45HKXE2		
FDKJ56HKXE2		
FDKJ71HKXE2		
Floor-standing — FDC-HKX FDFL	FDFLJ28HKXE2	Modbus: MH-8
FDFLJ45HKXE2		
FDFLJ71HKXE2		
Floor-standing concealed series FDC-HKX FDFU	FDFUJ28HKXE2	Modbus: MH-8
FDFUJ45HKXE2		
FDFUJ56HKXE2		
FDFUJ71HKXE2		

7.14 2000 models

Air conditioner series	Air conditioner model	Gateway
Light-commercial split systems		
Cassette — FDT(N)-H	FDT208HEN-SA	Modbus: MH-8
FDT258HEN-SA		
FDT308HEN-SA		
FDT308HES-SA		
FDT408HES-SA		
FDT508HES-SA		
FDT308HEN-A		
FDT308HES-A		
FDT408HES-A		
FDT508HES-A		
Cassette — FDT(N)-C	FDT208CEN-SA	Modbus: MH-8
FDT258CEN-SA		
FDT308CEN-A		
FDT308CES-A		
FDT408CES-A		
FDT508CES-A		
Cassette — FDR-H	FDR208HEN-SA	Modbus: MH-8
FDR258HEN-SA		
FDR308HEN-SA		
FDR308HES-SA		
FDR408HES-SA		
FDR508HES-SA		
FDR308HEN-A		
FDR308HES-A		
FDR408HES-A		
FDR508HES-A		
Ducted — FDU-H	FDU308HEN-SA	Modbus: MH-8
FDU308HES-SA		
FDU408HES-SA		
FDU508HES-SA		
FDU808HES-SA		
FDU1008HES-SA		
FDU308HEN-A		
FDU308HES-A		
FDU408HES-A		
FDU508HES-A		

Air conditioner series	Air conditioner model	Gateway
FDU508HEM-A		
Ducted — FDU-C	FDU308CEN-A	Modbus: MH-8
FDU308CES-A		
FDU408CES-A		
FDU508CES-A		
FDU508CEM-A		
Floor-ceiling — FDFL-H	FDFL258HEN-SA	Modbus: MH-8
FDFL308HEN-SA		
FDFL308HES-SA		
Multi-split systems		
Four-way cassette units series V MULTI FDT	FDT208-A	Modbus: MH-8
FDT258-A		
FDT308-A		
FDT408-A		
FDT508-A		
Cassette units two-way series V MULTI FDR	FDR208-A	Modbus: MH-8
FDR258-A		
FDR308-A		
FDR408-A		
FDR508-A		
Four-way cassette units series FDC-HKX FDT	FDTJ28HKXE2	Modbus: MH-8
FDTJ36HKXE2		
FDTJ45HKXE2		
FDTJ56HKXE2		
FDTJ71HKXE2		
FDTJ90HKXE2		
FDTJ112HKXE2		
FDTJ140HKXE2		
Cassette units two-way series FDC-HKX FDTW	FDTWJ28HKXE2B	Modbus: MH-8
FDTWJ45HKXE2B		
FDTWJ56HKXE2B		
FDTWJ71HKXE2B		
FDTWJ90HKXE2B		
FDTWJ112HKXE2B		
FDTWJ140HKXE2B		
One-way cassette units series FDC-HKX FDTS	FDTSJ22HKXE2B	Modbus: MH-8
FDTSJ28HKXE2B		
FDTSJ36HKXE2B		

Air conditioner series	Air conditioner model	Gateway
FDTSJ45HKXE2B		
FDTSJ71HKXE2B		
Cassette units two-way series FDC-HKX FDR	FDRJ22HKXE2	Modbus: MH-8
FDRJ28HKXE2		
FDRJ45HKXE2		
FDRJ56HKXE2		
FDRJ71HKXE2		
FDRJ90HKXE2		
FDRJ112HKXE2		
FDRJ140HKXE2		
Ducted — FDC-HKX FDUM	FDUMJ36HKXE2	Modbus: MH-8
FDUMJ45HKXE2		
FDUMJ56HKXE2		
FDUMJ71HKXE2		
FDUMJ90HKXE2		
FDUMJ112HKXE2		
FDUMJ140HKXE2		
Ceiling-suspended — FDC-HKX FDE	FDEJ36HKXE2B	Modbus: MH-8
FDEJ45HKXE2B		
FDEJ56HKXE2B		
FDEJ71HKXE2B		
FDEJ112HKXE2B		
FDEJ140HKXE2B		
Wall-mounted series FDC-HKX FDK	FDKJ22HKXE2	Modbus: MH-8
FDKJ28HKXE2		
FDKJ36HKXE2		
FDKJ45HKXE2		
FDKJ56HKXE2		
FDKJ71HKXE2		
Floor-standing — FDC-HKX FDFL	FDFLJ28HKXE2	Modbus: MH-8
FDFLJ45HKXE2		
FDFLJ71HKXE2		
Concealed floor-standing — FDC-HKX FDFU	FDFUJ28HKXE2	Modbus: MH-8
FDFUJ45HKXE2		
FDFUJ56HKXE2		
FDFUJ71HKXE2		

8. Air conditioner functions

Below is the list of Mitsubishi Heavy FDUR508HES-A air conditioner functions available 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 Fan Dry	▯ 1 - Heating 2 - Cooling 3 - Auto 4 - Fan 5 - Dry 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 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
Indoor air temperature	Current temperature measured by the air conditioner	▯ Minimum - 0 Maximum - 50 Displayed as: Channel type - temperature value
Outdoor air temperature	Current temperature measured by the air conditioner	☑ Hidden by default Minimum - -20 Maximum - 50 Displayed as: Channel type - temperature value
Target temperature — the parameter used to send the required temperature setpoint	Minimum value: 16 Maximum value: 32	▯ Minimum - 18 Maximum - 30 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	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
Horizontal louvers — parameter controlling the horizontal louver position (up-down)		▯ 1 - Swing (up-down) 2 - Lower position 3 - Second position 4 - Third position 5 - Upper position Displayed as: Channel type - range
Temperature correction	Service parameter	▯ Displayed as: Channel type - value