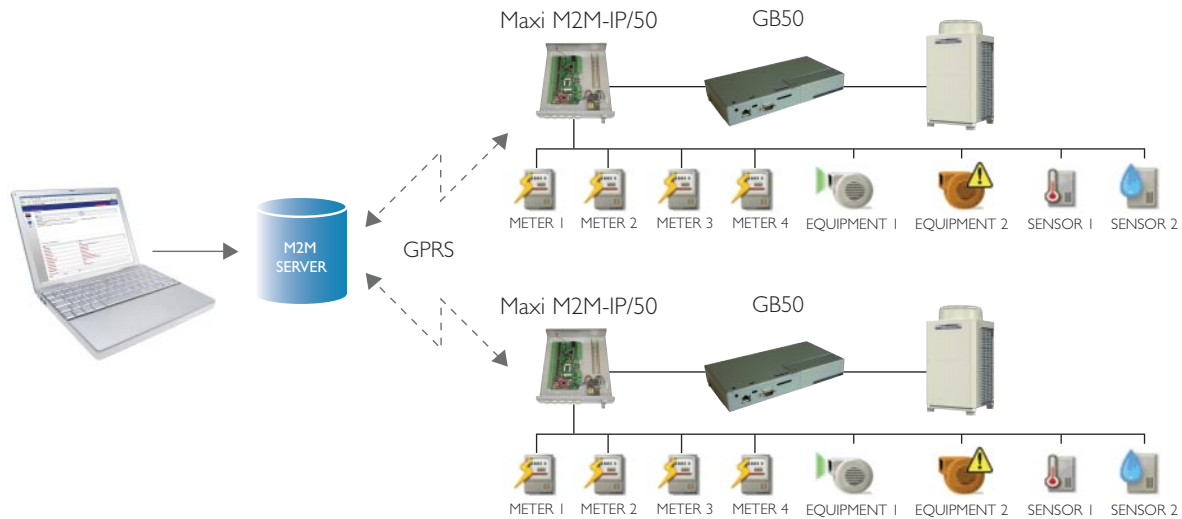


M2M - Machine 2 Machine Interface

Procon™ Maxi M2M-IP/50

To offer remote management of its air conditioning units to companies with large numbers of dispersed offices, Mitsubishi Electric has adopted the M2M platform. The machine-to-machine (M2M) technology platform allows customers to integrate multiple sites into one network. The air conditioning units as well as third party equipment will be wirelessly connected to the M2M server and use the GPRS network to communicate.



Technical Information

M2M INTERFACE

FUNCTION	DESCRIPTION
MAX No. OF INPUTS	22 (4 to 20mA, 0 to 10VDC, 10kΩ resistor, digital)
MAX No. OF OUTPUTS	4 (volt free contact) 4 (pulse with modulation)
MAX No. OF INDOOR UNITS	50
POWER SUPPLY	240VAC 2A
COMPATIBILITY	City Multi, Mr Slim and M Series
DIMENSIONS - mm (WxDxH)	300x70x350

M2M INTERFACE - OPERATIONAL INFORMATION

FUNCTION	NETWORK VARIABLE	UP TO 25 GROUPS	UP TO 50 GROUPS	NOTES
Control				
	On/Off	✓	✓	Run/Stop
	Mode Operation	✓	✓	Cool / Dry / Heat / Auto / Fan
	Setpoint Adjustment	✓	✓	Cooling 19-30°C, Heating 17-28°C, Auto 19-28°C
	Fan Speed Control	✓		Lo-Mi1-Mi2-Hi
	Permit / Prohibit	✓		On/Off, Mode, Setpoint
	Airflow Direction	✓		Horizontal - 60,80,100° swing
	Filter Sign	✓		Normal/Reset
Monitor				
	On/Off	✓	✓	Run/Stop
	Mode Operation	✓	✓	Cool / Dry / Heat / Auto / Fan
	Setpoint Adjustment	✓	✓	Cooling 19-30°C, Heating 17-28°C, Auto 19-28°C
	Fan Speed Control	✓		Lo-Mi1-Mi2-Hi
	Permit / Prohibit	✓		On/Off, Mode, Setpoint
	Airflow Direction	✓		Horizontal - 60,80,100° swing
	Fault Code	✓	✓	4 Character code - Indicates all unit alarms
	Filter Sign	✓		-
	Room Temperature	✓	✓	-

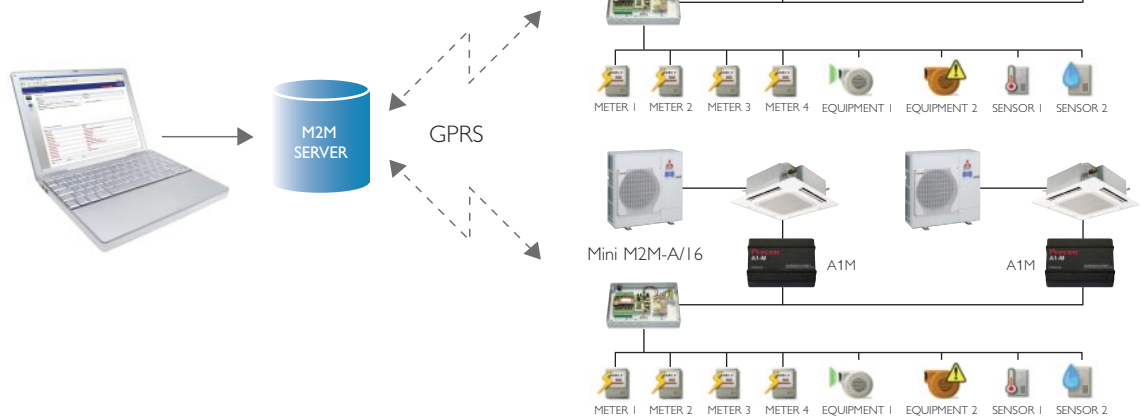
DEMONSTRATION

Visit m2m.mitsubishielectric.co.uk/demo to use the live demonstration space (login: demo / password: demo)

M2M - Machine 2 Machine Splits Interface

Procon™ Mini M2M-A/I 6

To offer remote management of its air conditioning units to companies with large numbers of dispersed offices, Mitsubishi Electric has adopted the M2M platform. The machine-to-machine (M2M) technology platform allows customers to integrate multiple sites into one network. The air conditioning units as well as third party equipment will be wirelessly connected to the M2M server and use the GPRS network to communicate.



Technical Information

M2M SPLITS INTERFACE

FUNCTION	DESCRIPTION
MAX No. OF INPUTS	8 (4 to 20mA, 0 to 10VDC, 10kΩ resistor, digital)
MAX No. OF OUTPUTS	4 (pulse with modulation)
MAX No. OF INDOOR UNITS	16
POWER SUPPLY	240VAC 2A
COMPATIBILITY	Mr Slim and M Series via Procon A1M
DIMENSIONS - mm (WxDxH)	255x60x180

M2M SPLITS INTERFACE - OPERATIONAL INFORMATION

FUNCTION	NETWORK VARIABLE	NOTES
Control		
	On/Off	Run/Stop
	Mode Operation	Cool / Dry / Heat / Auto / Fan
	Setpoint Adjustment	Cooling 19-30° C Heating 17-28° C Auto 19-28° C
	Fan Speed Control	Lo-Mi1-Mi2-Hi
	Time Zone	Weekly scheduling available
Monitor		
	On/Off	Run/Stop
	Mode Operation	Cool / Dry / Heat / Auto / Fan
	Setpoint Adjustment	Cooling 19-30° C Heating 17-28° C Auto 19-28° C
	Fan Speed Control	Lo-Mi1-Mi2-Hi
	Fault Code	4 Character code – Indicates all unit alarms
	Room Temperature	-
	Time Zone	Weekly scheduling available

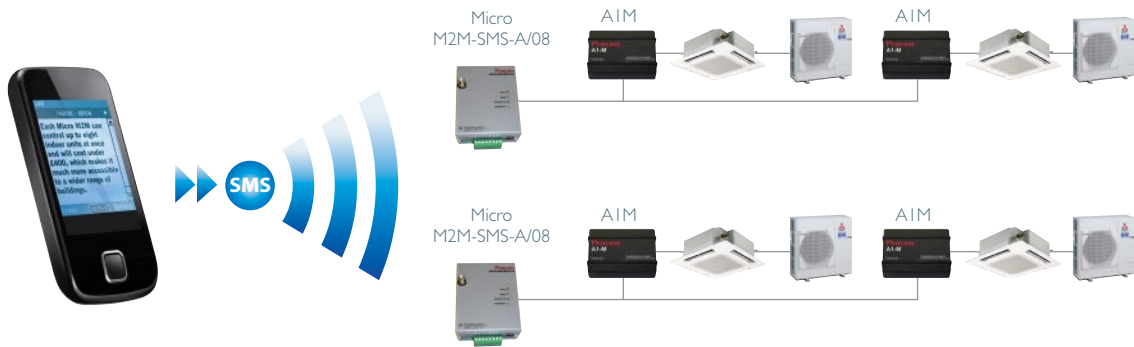
DEMONSTRATION

Visit m2m.mitsubishielectric.co.uk/demo to use the live demonstration space (login: demo / password: demo)

M2M - Machine 2 Machine Splits Interface

Procon™ Micro M2M-SMS-A/08

The Micro M2M can monitor and control up to 8 splits systems. The Micro M2M cannot be connected to the M2M server but can be monitored and controlled using text messages (SMS).



Technical Information

M2M SPLITS INTERFACE

FUNCTION	DESCRIPTION
MAX No. OF INDOOR UNITS	8
POWER SUPPLY	10 to 28VDC 2.5A
COMPATIBILITY	Mr Slim and M Series via Procon AIM
DIMENSIONS - mm (WxDxH)	70x51x105

M2M SPLITS INTERFACE - OPERATIONAL INFORMATION

FUNCTION	NETWORK VARIABLE	NOTES
Control		
	On/Off	Run/Stop
	Mode Operation	Cool / Dry / Heat / Auto / Fan
	Setpoint Adjustment	Cooling 19-30° C Heating 17-28° C Auto 19-28° C
	Fan Speed Control	Lo-Mi1-Mi2-Hi
Monitor		
	On/Off	Run/Stop
	Mode Operation	Cool / Dry / Heat / Auto / Fan
	Setpoint Adjustment	Cooling 19-30° C Heating 17-28° C Auto 19-28° C
	Fan Speed Control	Lo-Mi1-Mi2-Hi
	Fault Code	4 Character code – Indicates all unit alarms

TEXT MESSAGE EXAMPLES

REGISTER (FROM MOBILE PHONE)	To register the Micro M2M to your mobile phone, just text the PIN and "ADD". Up to 8 numbers can be registered. For example: "1234 ADD" 1234 being the last 4 digits of the serial number
MONITOR	To monitor the units, just text "STATUS" to the unit and the Micro M2M will reply with, for example: STATUS UNIT1:OK AIM COMMS:OK DRIVE:OFF ROOMTEMP:22 TEMP SETPOINT:20 MODE:AUTO FAN:HIGH
CONTROL	To switch the unit to heat mode, just text "SET""unit name" and "HEAT" for example: "SET UNIT1 HEAT"
FAULTS	If the unit goes into fault, the Micro M2M will send a detailed text message, for example: STATUS UNIT1: FAULT AIM COMMS: FAULT CALL 0870 3000300 FOR ASSISTANCE

M2M-Machine 2 Machine Web Screenshots

MEUK Website



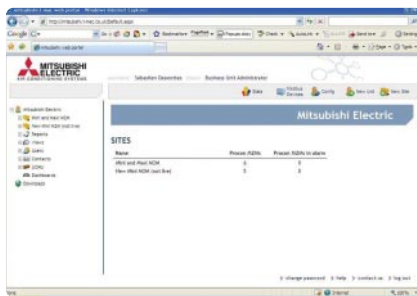
M2M is accessible using MEUK website.

Login



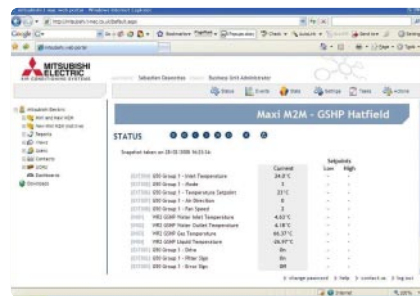
A username and password is required to monitor and control sites.

Monitor Active Alarms and Sites



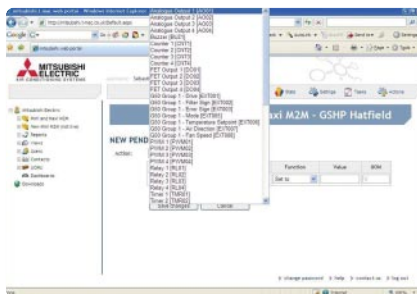
All sites are listed with active alarm sites.

Status



A site can be selected to monitor each system.

Set Parameters



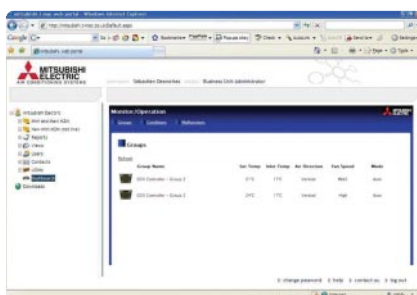
Indoor unit and third party equipment can be controlled from the Website.

Reports



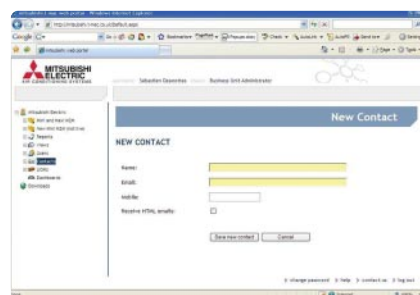
Reports can be generated for analysis.

Dashboard



AG150/GB50 web pages are available for the air conditioning units

Administration



Using the administration level, the phone numbers and email of each duty engineer may be set and activated.

Run Standby Panel

Procon™ PANEL_RS_SMS

The panel PANEL_RS_SMS replaces the previous run standby panels. The new panel is smaller and uses Micro M2M technology. The panel can control up to 8 indoor units and will send a text message under fault condition.



Technical Information

PROCON™ PANEL_RS_SMS

FUNCTION	DESCRIPTION
MAX No. OF INDOOR UNITS	8
FEATURES	Buzzer, fault LED, Auto/Manual override switch
POWER SUPPLY	240VAC 2A
COMPATIBILITY	Mr Slim and M Series via Procon A1M
DIMENSIONS - mm (WxDxH)	253x90x180

TEXT MESSAGE EXAMPLES

REGISTER (FROM MOBILE PHONE)	To register the Micro M2M to your mobile phone, just text the PIN and "ADD". Up to 8 numbers can be registered. For example: "1234 ADD" 1234 being the last 4 digits of the serial number
SET UP USING A TEXT	Enter the number of units running, the number of days to switch over and the high temperature alarm, for example: "BACKUP ON, 3, 7, 27" ("ON" to activate, "3" for 3 units running, "7" to switch over every 7 days and "27" for the high temperature alarm [all the units will be switch ON])

Example: "BACKUP ON, 2, 1, 27" = 2 units running, change daily, high temperature 27°C

	Unit 1	Unit 2	Unit 3	Unit 4	
Day 1					2 units running, unit 3 and 4 are in standby
Day 2					2nd day, the switching over is enabled. Unit 1 and 4 are now in standby and Unit 2 and 3 are running
Day 3					3rd day, the switching over is enabled. Unit 1 and 2 are now in standby and Unit 3 and 4 are running
Day 3					On the 3rd day, the unit 4 fails
Day 3					The next unit in standby starts automatically. Unit 1 and 3 are running, 2 is in standby and 4 in fault
Day 4					The 4th day, a high temperature is detected for instance 28°C
Day 4					All units will then start

NOTE: The PANEL_RS_SMS is pre-configured as a PANEL_RS1 and can be re-configured as PANEL_RS2 or PANEL_RS3 using a jumper.