

Guestroom Management Module

Energy Conservational

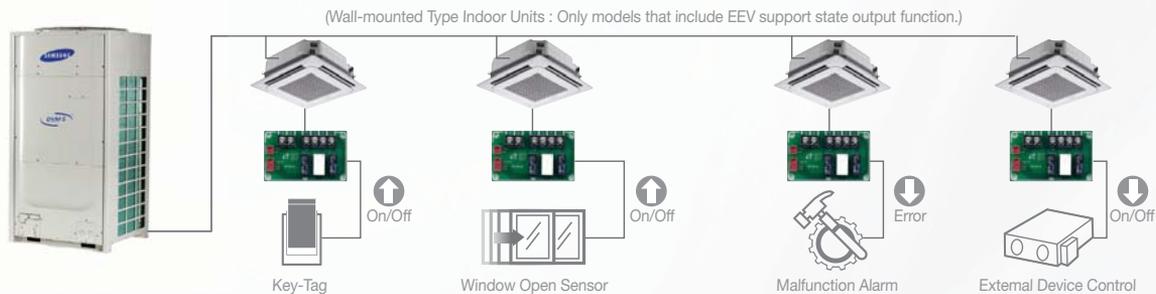
Guest Room Management system saves you energy and money on cooling an unoccupied room: the air-conditioner is activated when Key-Tag is in place and turns off when Key-Tag is removed.

External Contact Interface Module

MIM-B14

- Direct indoor unit control by external contact signal
- Window-synchronized indoor unit control
- Emergency control with simple contact input
- Indoor unit operation / error state output through relay contacts

Example

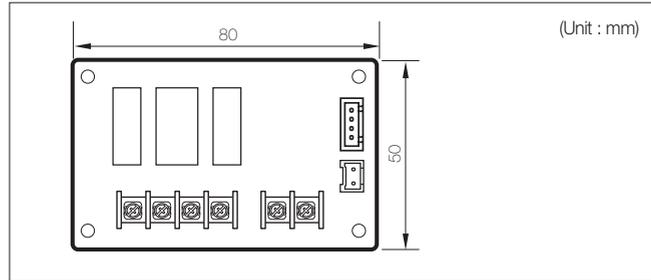
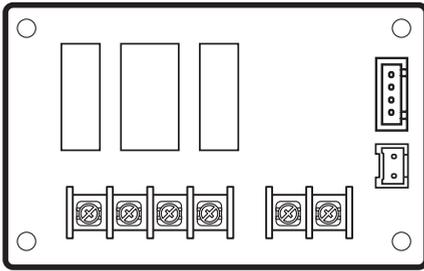


External contact control system

1. External contact interface module

□ MIM-B14

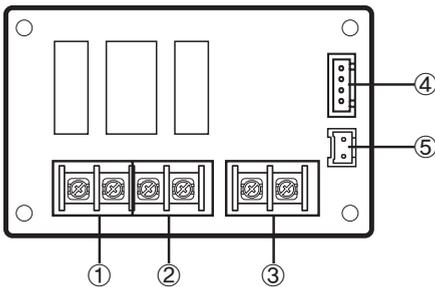
1) Features



Interlock DVM air-conditioner with external controller

- Indoor unit On/Off control by the external contact (Usable equipment: Card-key, Timer, Sensor)
- Output the indoor unit thermo ON/OFF state and operation status
- Output the indoor unit error state

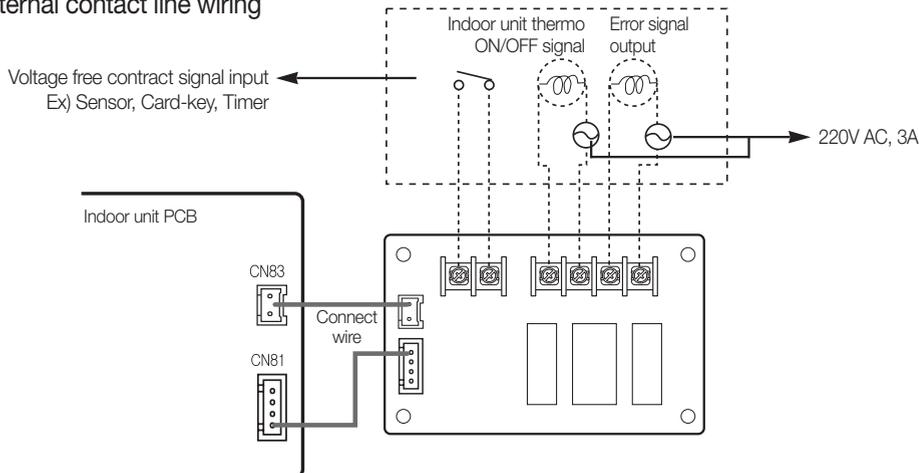
2) Description of parts



No.	Input/Output	Contact rating	Operation
①	Error state	220V AC, 3A	Normal: Close, Error: Open
②	Indoor unit Thermo On/Off or Operation State output (It depends on indoor unit's INSTALL option setting SEG 15.)	220V AC, 3A	[Output signal] SEG 15 = 0 Thermo On/Off SEG 15 = 1 Operation On/Off (On: contact close, Off: contact open)
③	Operation signal input load	5V DC, 5mA	-
④	Connector for indoor unit	-	-
⑤	Connector for indoor unit	-	-

3) Installation

External contact line wiring



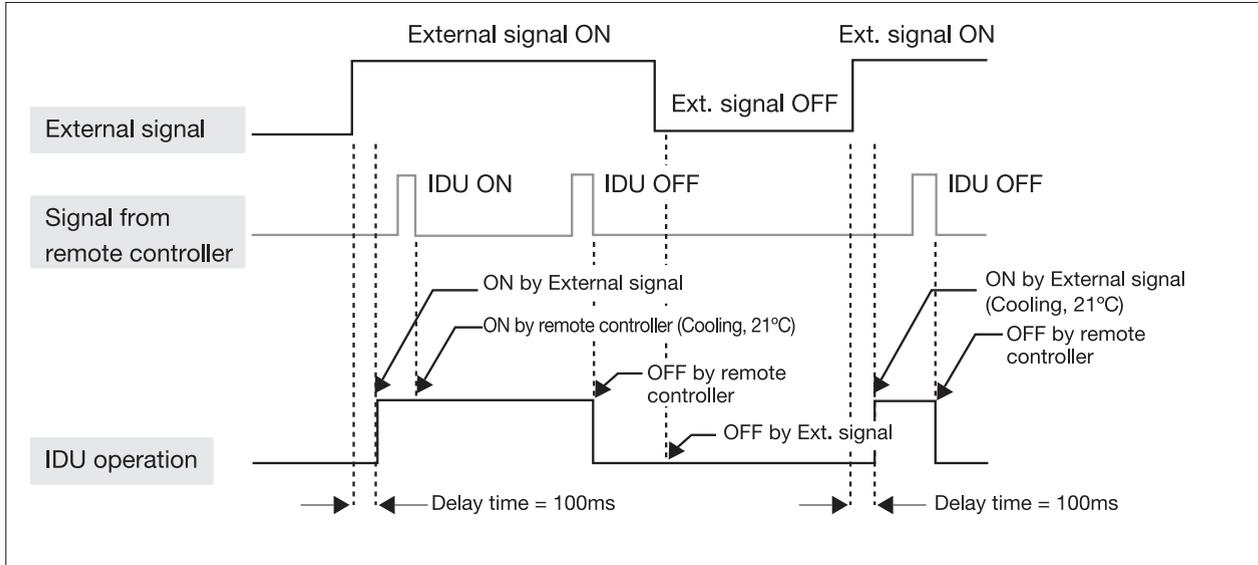
☑ Note

- External operation input load: 5V DC/5mA.
- The length of wiring between MIM-B14 and external control equipment is 100m max.
- To use external contact control system, indoor unit's INSTALL option setting is required. (Refer to indoor unit installation manual)
 - * SEG 14 - External control setting (Default : No use)
- After installed, the first operation will be conducted with Auto mode, Set temp. 24°C, Auto Fan speed.
- If the indoor unit in OFF status is turned ON through external contact signal; it will operate in the last operation status before it was turned off.

4) Control

Timing diagram for external contact control

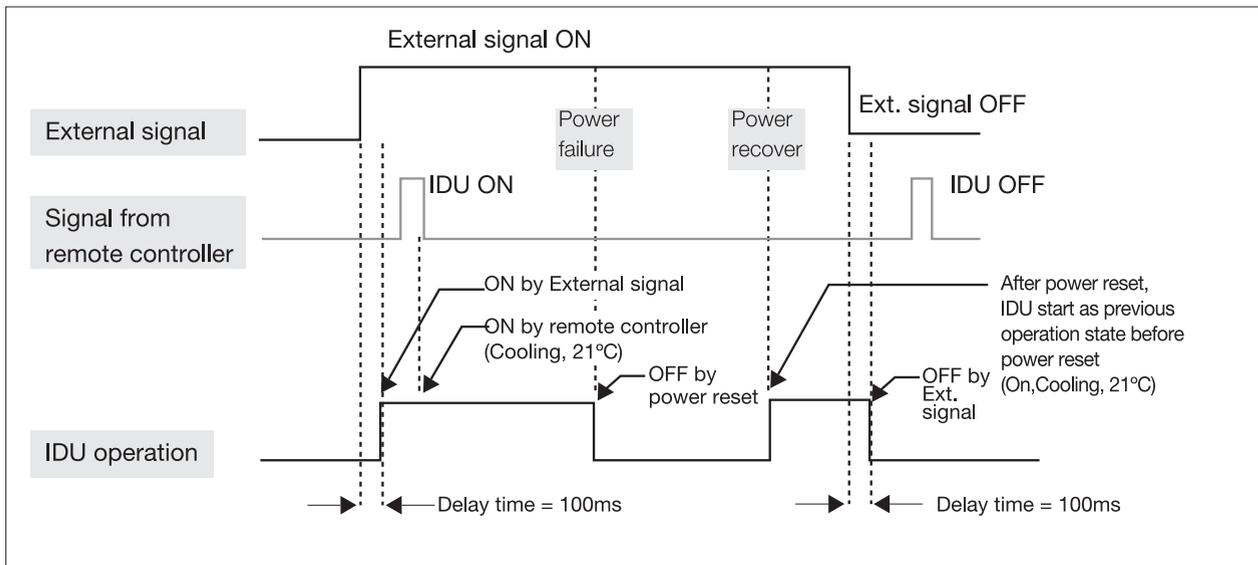
Ex1)



Note

- IDU stands for Indoor Unit.
No prioritized operation between the R/C and the external contact I/M.

Ex2)



Note

- IDU stands for Indoor Unit.
After power reset, indoor unit operates as previous state. (IDU has power recovery function)

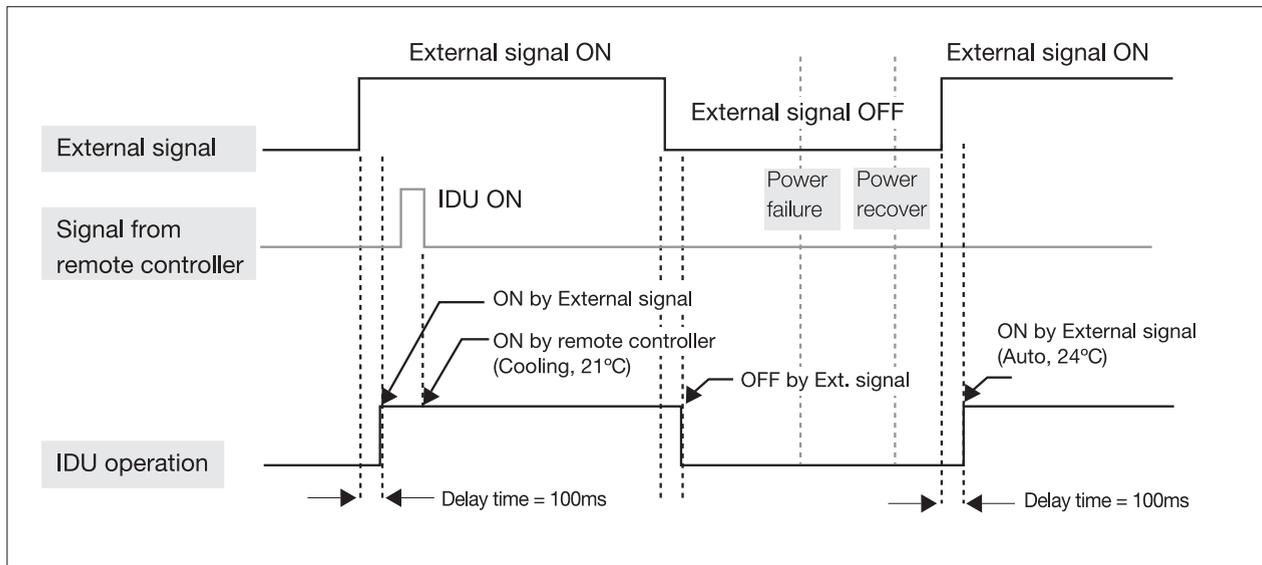
External contact control system

1. External contact interface module

□ MIM-B14

4) Control

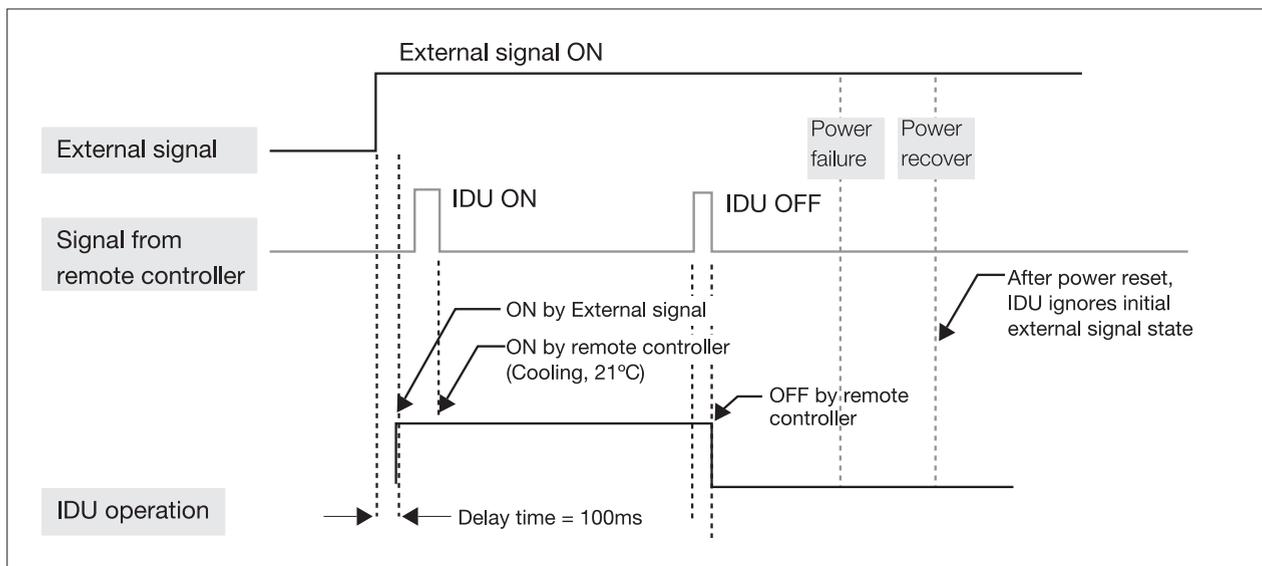
Ex3)



Note

- ◆ IDU stands for Indoor Unit.
After power reset, if IDU is turn ON by external contact, it starts as Auto mode, 24°C, Auto fan speed.

Ex4)



Note

- ◆ IDU stands for Indoor Unit.
After power reset, IDU ignores initial external signal state.

► Operation input

It is possible to set the method of indoor unit control by external contact signal.

- Method 1. Turn On/Off the indoor units by external contact signal
- Method 2. Set standby/Turn Off the indoor unit by external contact signal
- Method 3. Return to the last status / Turn Off the indoor unit by external contract signal

	Method 1	Method 2	Method 3
Indoor unit INSTALL option setting (Refer to indoor unit installation manual)	SEG 14 = 1	SEG 14 = 2	SEG 14 = 3
Indoor unit operation by external contact	Short → Indoor unit On Open → Indoor unit Off	Short → Standby Open → Indoor unit Off	Short → Return to the last status of indoor unit Open → Indoor unit Off
Remote controller use	Short → Available Open → Available	Short → Available Open → Unavailable	Short → Available Open → Unavailable

► Operation output

	DVM S series indoor unit	
Output signal	SEG 15 = 0 SEG 15 = 1	Thermo On/Off Operation On/Off
Output signal delay time	None	
Error signal		

- Thermo off : Status where refrigerant is not flowing in either cooling/heating operation because desired temperature has been reached.