

### Unoccupied Room Control

Applicable indoor unit firmware versions:

Indoor unit type	Indoor Model Number	Version / date code
Neo Forte (wall mount)	AM0**FNTDCH/AA	DB91-01508A, date code (14/06/13) and newer
	AM0**HNQDCH/AA	
Cassette	AM0***N4DCH/AA	DB91-01507A, date code (14/06/13) and newer
	AM0**FN1DCH/AA	
	AM0**FNNDCH/AA	
Ducted	AM0**FNLDCH/AA	DB91-01507A, date code (14/06/13) and newer
	AM0***NMDCH/AA	
	AM0***NHDCH/AA	
Under Ceiling / Low-Wall	AM0**FNCDCH/AA	
Vertical Air Handler / AHU Kit	AM0**GNVQCH	DB91-01509A, date code (14/06/13) and newer
	AM0**JNZDCH/AA	
	MXD-K***AN	

Use SNET Pro 2 Service Software to view the installed firmware version of on indoor unit. To upgrade an indoor unit purchased with a previous firmware version, use SNET Pro 2 Service software. Firmware files are available through Quietside DVM technical support.

Indoor Unit Installation Data								
Address	Model	RMC	Location	Product Option	Installation Option	Installation Option2	Main Micom	MTFC
0	Duct	04	Slim Duct	[0]10054-[1]255D1-[2]01616-[3]31110	[0]20310-[1]21000-[2]10000-[3]00000	[0]50000-[1]00000-[2]00009-[3]00000	DB91-01507A-14/06/13	<input type="radio"/>
1	Global 4Way	03	4 Way	[0]1404F-[1]95097-[2]01A1A-[3]30000	[0]20310-[1]21000-[2]10000-[3]00000	[0]50000-[1]00000-[2]00009-[3]00000	DB91-01507A-14/06/13	<input type="radio"/>
2	Duct	06	MSP Duct	[0]10054-[1]25E44-[2]06E6E-[3]31110	[0]20310-[1]21000-[2]10000-[3]00000	[0]50000-[1]00000-[2]00009-[3]00000	DB91-01507A-14/06/13	<input type="radio"/>
3	Slim 1Way	02	1 Way	[0]17064-[1]180C8-[2]01616-[3]30010	[0]20310-[1]21000-[2]10000-[3]00000	[0]50000-[1]00000-[2]00009-[3]00000	DB91-01507A-14/06/13	<input type="radio"/>

### Unoccupied room control concept

Unoccupied room control can be used to reduce system demand when a room is not occupied by changing zone settings.

- Firmware with date code 14/06/13 and newer will provide the ability to change a room's operating mode, fan speed, and set temperature when unoccupied.
- The unoccupied settings can be modified with MIM-D00AN, MIM-D01AUN, MIM-B17N, MIM-B17BN, MIM-B18N, or MIM-B18BN gateways (software version 2.6.1.14 or newer) or programmed with the latest SNET Pro 2 service software (1.2.0 or newer).

Example: Unoccupied room control with MIM-D00AN, MIM-D01AUN, MIM-B17N, MIM-B17BN, MIM-B18N, MIM-B18BN

The screenshot shows the 'Control and Monitoring' interface for 'Zone management'. A dropdown menu is open, highlighting 'Control for unoccupied room'. Below, the 'Control for unoccupied room' configuration table is visible, showing settings for various zones.

Address	Name	Mode	Desired temp.	Fan speed	Apply
All	All	[Mode]	[Temp]°F	[Fan Speed]	
11.01.00	LSP	Cool	80.0°F	Low	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
11.01.01	4 Way	Cool	68.0°F	Low	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
11.01.02	MSP Duct	Cool	68.0°F	Low	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
11.01.03	1 Way	Cool	68.0°F	Low	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
11.01.04	Mini 4 Way	Cool	68.0°F	Low	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
11.01.05	Wall Unit	Cool	80.0°F	Low	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
11.01.06	Ceiling	Cool	68.0°F	Low	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

**Required components**

- Each indoor unit that will use unoccupied room control will require a Samsung MIM-B14 External Contact Control module.
- Occupancy sensing device with a 0 volt switch that will connect to the MIM-B14 in the indoor unit. Common devices include: motion sensors, key-card holders (hotels), door/window switch, Digital Output from a BMS system. These are field-provided.

**Option settings**

- Segment 14 of the indoor basic options settings (02 series) will be used to specify unit behavior when using Unoccupied Room Control.
- If an indoor unit has an MIM-B14 connected for external contact control but Unoccupied Room Control is not enabled, standard external contact control programming options will be used (ON/OFF, OFF only, and window ON/OFF control).

02 Series Installation Option Setting (basic options), segment 14				
Option/Setting	Dry contact state	Indoor	Remote controller usage <sup>1</sup>	Central controller usage
1	Close	Turn ON	Enable	Enable
	Open	Operate by unoccupied setting	Enable	Enable
2	Close	OFF, able to use remote controller	Enable	Enable
	Open	Operate by unoccupied setting	<b>Disable <sup>2</sup></b>	<b>Disable <sup>2</sup></b>
3	Close	Return to operation mode before ON	Enable	Enable
	Open	Operate by unoccupied setting	<b>Disable <sup>2</sup></b>	<b>Disable <sup>2</sup></b>

<sup>1</sup> Remote control includes wired controllers, wireless controllers, and ON/OFF buttons on high-wall, under-ceiling units, and wireless signal receiver ON/OFF button for concealed duct units.

<sup>2</sup> No central control is possible for an indoor unit when in "Unoccupied Mode". Schedule control is interrupted until the MIM-B14 input is closed.

**Operation example**

Occupancy sensing with hotel room keycard holder. Operation when contact is closed will vary based on the option programmed from the above table.

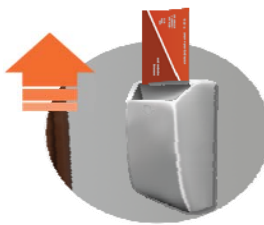


Check In  
Contact closed



Operation settings:

- Occupant defined with wired/wireless controller or central control.
- Return to previous operation settings

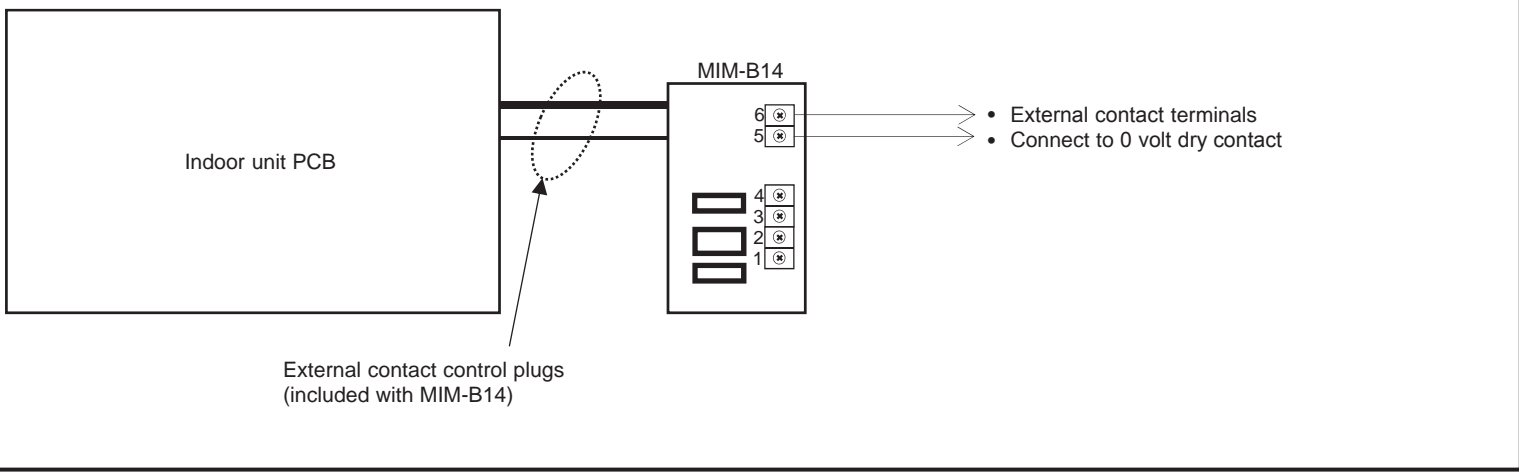


Check Out  
Contact open



- Change to preset operation mode, set temperature, and fan speed.
- Settings can be programmed with SNET Pro 2 version 1.2.0 or newer or through DMS2 for DVM S systems.
- Different setting options are available (more details in programming options section).

#### Connection example



#### 02 Series, Basic indoor unit options settings – segment details

Options "Page" number	Segment	Options "Page" number	Segment	Options "Page" number	Segment	Options "Page" number	Segment
02XXXXX	Segment 1	1XXXXXX	Segment 7	2XXXXXX	Segment 13	3XXXXXX	Segment 19
Option setting type/series	Segment 2	Samsung Condensate Pump Use	Segment 8	External Contact Control	Segment 14	Wireless Remote Address	Segment 20
Robot Cleaning	Segment 3	Hot Water	Segment 9	Indoor Unit Operation Output	Segment 15	Heating Temperature Compensation	Segment 21
Remote Temperature Sensor / Decrease Fan Usage	Segment 4	Electric Heat	Segment 10	SPI Use	Segment 16	EEV Use During Oil Return and Defrost Operation	Segment 22
Central Control	Segment 5	EEV Stop Step In Heating Mode	Segment 11	Buzzer / Chime Use	Segment 17	Motion Sensor	Segment 23
RPM Adjustment	Segment 6	Indoor Unit Display on Wired Controller	Segment 12	Filter Reminder Setting	Segment 18	Not Used	Segment 24