

## Application 2: Modifying Set-Point in relation to occupancy

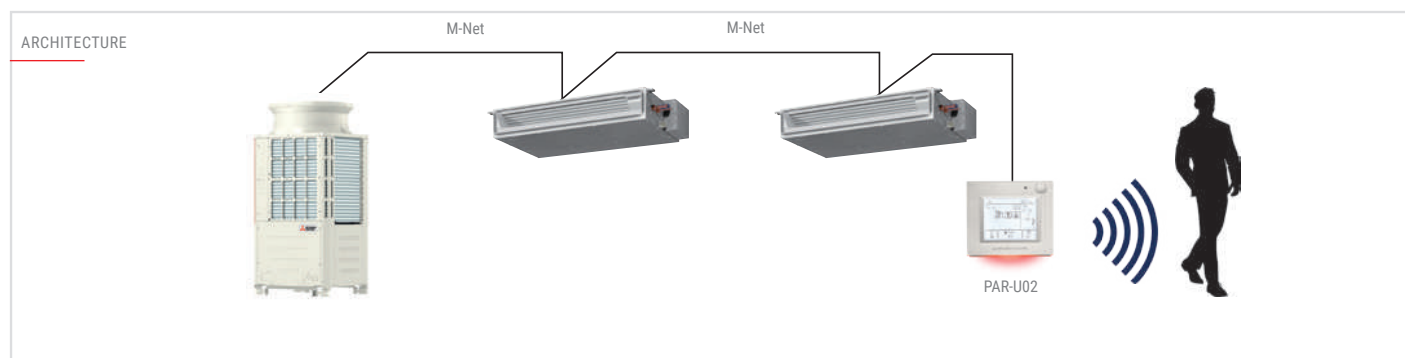
### The need

• Occupancy-based set point adjustment is required for the indoor units in order to save energy while still ensuring the comfort of the personnel using the spaces.

### Solution

• The integrated occupancy sensor and the related operating logic enable occupancy-based control as shown in the following example:

- In summer: T° set to 22°C if space is occupied, T° set to 24°C if space is vacant.
- In winter: T° set to 21°C if space is occupied, T° set to 19°C if space is vacant.



This function may be set from the PAR-U02 controller, from the "Energy Saving" menu.

## Key Technologies


FUNCTION	DESCRIPTION	SETTING	DISPLAY
ON/OFF	Switch between ON and OFF	○	○
Operating mode	For switching between cooling/dehum./fan/auto/heating modes	○	○
Temperature setting	Modify set temperature. The settable temperature range varies depending on the model of indoor unit.	○	○
Set speed	Modifies fan speed. Fan speeds available vary depending on the model of indoor unit installed.	○	○
Air flow direction	Modify direction of air flow. Selectable air flow directions depend on the model of indoor unit.	○	○
Enable/disable local operations	The following functions may be disabled from specific settings on the centralised controller: ON/OFF, select operating mode, set temperature, fan speed, air flow direction, reset filter indicator lamp. The relative icon is shown on the display when a function is disabled.	×	○
Error	Displays error with relative unit address. The following information may be displayed in the event of an error: indoor unit model, serial number, contact information (e.g. phone number of dealer). An error code may not be displayed for certain errors.	—	○
Weekly timer	Used to set weekly ON and OFF times. Time is settable in 5 minute steps. Up to eight operating patterns are available per day. Not available when Timer ON/OFF mode is active.	○	○
Timer	Used to set ON and OFF times. • Time settable in 5 minute steps. • Both ON and OFF times are settable. • Auto-OFF timer: Used to set Auto-Off time. • Time may be set within a range from 30 to 240 minutes in steps of 10 minutes.	○	○
Night Set-back	Temperature ranges and start/end times are settable for Night Set-back mode.	○	○
Occupancy sensor for energy saving mode.	Operation in energy saving mode is activated when the occupancy sensor detects that the room is vacant. Four control modes are available: "On/Off", "Set temp.", "Vent", "Thermo-OFF". The light sensor may be used in conjunction with the occupancy sensor for more accurate detection of vacant room state.	○	○

○ Each group × Not available