

VRF Smart Connectivity+

Through thorough energy management, Panasonic's VRF Smart Connectivity+ is a completely new, state-of-the-art solution providing energy saving and comfort as well as simple installation, operation and running.



Dramatic reduction of OpEx with outstanding IAQ.

3 built-in sensors: Temperature, RH and occupancy.

ZigBee wireless sensors:
CO₂ / temperature / RH%,
window / door, ceiling / wall / water
leakage.

Relay Pack, Hotel Room Controller.



User-/owner-friendly.

Colour touch screen.

Simple and easy to use.

22 languages.

Easy-to-understand error description.



Ultimate customisation.

Customisable colour background.

Custom display/icons, messages.

Programmable logic (also stand
alone).

Various controls and various external
connection devices.



Easy design and Plug & Play to reduce CapEx.

Simple Plug & Play VRF connection
to Building Energy Management
System (BEMS).

Stand alone or BEMS connected.
Easy installation of ZigBee sensors.

VRF Smart Connectivity+ offers efficient energy management and a new air conditioning control solution with high IAQ (indoor air quality).

Panasonic **Schneider**
Electric

Energy management system for rooms.

Each room is monitored by high-precision sensors, making it possible to make every room's temperature comfortable without wasting energy.

Management system for the entire building.

A Building Energy Management System (BEMS) can also be connected for Plug & Play centralised control of the building's entire energy consumption.

1 Quality air control

Optimum IAQ is realized using the CO₂ and humidity sensors. The interior environment remains comfortable, while heating and cooling costs are minimized. The CO₂ sensor can control ventilation systems, which contribute to improving the room's air quality.

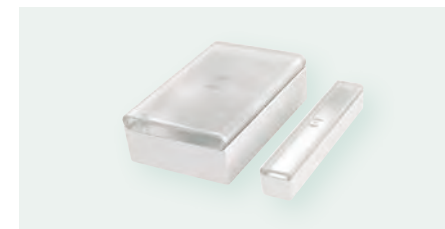
2 Easy installation and integration

A remote controller is all that's required for occupancy control and optimum automatic indoor air quality (IAQ) control. Simple operation with a rented interface further contributes to increased energy efficiency and productivity for reduced capital expenditure (CapEx) and operating expense (OpEx).

3 Other equipment control

One room controller manages various devices including lighting and the blinds. A ventilation system and other external connection devices can be connected by using HRC or SE8350 so that various control is possible with this controller alone, even without BMS.

VRF Smart Connectivity+: SER8150.



Door/window sensor.

Door and window contact detection sensor to monitor opening and closing.



Wall/ceiling motion/temperature/humidity sensor.

Wall and ceiling sensor to detect the presence or absence of occupants.



CO₂ /temperature/humidity sensor.

Monitor indoor air quality, review data on interfacing devices, and control fresh air inside customisable zones.



Water leakage sensor.

Two sensing pads under the body activate when water is present between the two pads. Detecting the water, the sensor reports the event to the controller (and BEMS).



Hotel Room Controller (HRC).

The Hotel Room Controller controls connected guest room devices and aggregates data, making it visible to guest room and property management systems.

Smart management solutions

[illegible]

The diagram illustrates a smart home environment with the following components and their locations:

- 1** Window sensor (option): Located on the left window frame.
- 2** Room controller: A small white device with a ZigBee symbol, located near the window.
- 3** Ceiling motion sensor (option): A white circular sensor mounted on the ceiling.
- 4** Door sensor (option): A white rectangular sensor mounted on the door frame.
- 5** CO₂ sensor (option): A white rectangular sensor mounted on the wall.
- 6** Water leakage sensor (option): A white circular sensor mounted on the floor.
- Central Hub:** A white rectangular device with a ZigBee symbol, located in the center of the room.
- Smart TV:** A large screen displaying "23.5°" and "100%", located on the right wall.
- Smart Bed:** A blue bed frame with a white pillow, located in the foreground.
- Smart Chair:** Two black chairs, one on the left and one on the right of the bed.
- Smart Lamp:** A white lamp with a green light, located on the left side of the room.
- Smart Speaker:** A black speaker with a green light, located on the left side of the room.
- Smart Door:** A white door with a handle, located on the right side of the room.
- Smart Window:** A large window with a white frame, located on the left side of the room.
- Smart Wall:** A white wall with a green light, located on the right side of the room.
- Smart Ceiling:** A white ceiling with a green light, located on the top of the room.
- Smart Floor:** A white floor with a green light, located on the bottom of the room.

Room key card or key cardless solutions for hotels. The SER8150 and ZigBee sensor automatic detection function offer optimal air conditioning regardless of whether there is a hotel room key or not. Sensors detect the presence or absence of occupants and the opening and closing of doors and windows for the optimum air-conditioned environment guests expect. Automatic control ensures the most efficient operation when guests are away or when windows are open. This contributes to an appreciable reduction in operation costs.

CO₂ sensors (option) and humidity sensors.
CO₂ sensors (option) take measurements in units of ppm, and humidity sensors enable fine air quality control. This creates the most comfortable space for occupants while contributing to improved employee satisfaction.



Humidity sensors.
Humidity sensors enable automatic dehumidification for the optimum IAQ regardless of climatic conditions. This creates an even more comfortable environment for customers, employees, and products themselves.



A grid of 18 national flags arranged in three rows and six columns. The flags include: United Kingdom, France, Germany, Italy, Spain, and the Netherlands in the first row; Greece, Czech Republic, Poland, Denmark, Sweden, and Norway in the second row; and Ireland, Slovakia, Hungary, Finland, Switzerland, and Turkey in the third row.

Programmable logic.
Full customisation of remote controller logic possible, and updating to match conditions.

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