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.

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 CO_2 and humidity sensors. The interior environment remains comfortable, while heating and cooling costs are minimized.
The CO_2 sensor can control ventilation systems, which contribute to improving the room's air quality.
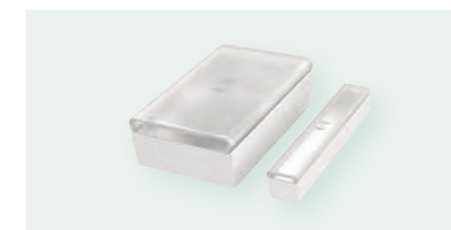
2 Easy installation and integration

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.

Dramatic reduction of OpEx with outstanding IAQ.
3 built-in sensors: Temperature, RH and occupancy.
ZigBee wireless sensors:
CO_2 / temperature / RH%,
window / door, ceiling / wall / water leakage.
Relay Pack, Hotel Room Controller.

Ultimate customisation.
Customisable colour background.
Custom display/icons, messages.
Programmable logic (also stand alone).
Various controls and various external connection devices.

User-/owner-friendly.
Colour touch screen.
Simple and easy to use.
22 languages.
Easy-to-understand error description.

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.

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.

CO_2 /temperature/humidity sensor.
Monitor indoor air quality, review data on interfacing devices, and control fresh air inside customisable zones.
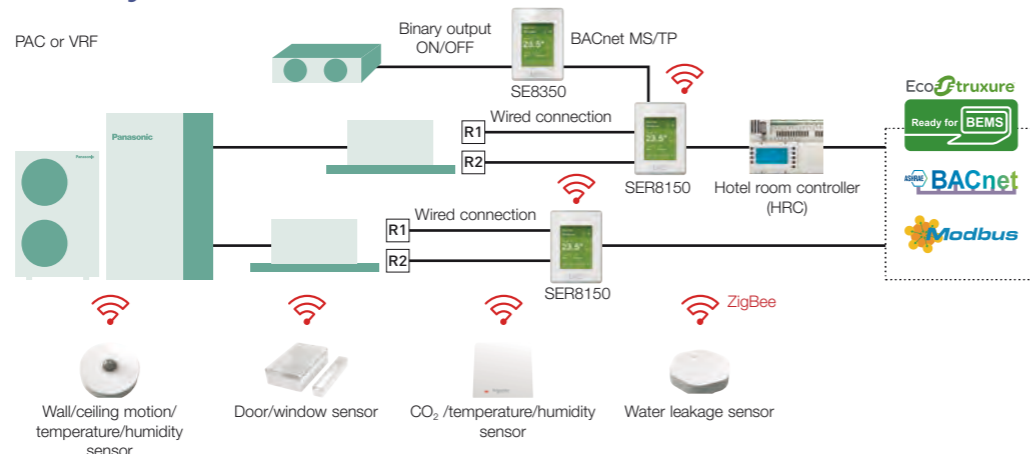
Water leakage sensor.
Two sensing pads under the body activate when water is present between the two pads. Detecting the water, the sensor reports the event to the controller (and BEMS).

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.

Energy management system for rooms

By installing a wall/ceiling motion temperature sensor, window/door sensor, and CO_2 sensor in the room, ideal, waste-free air conditioning is achieved.

PAC or VRF

Binary output ON/OFF   BACnet MS/TP
SE8350

Wired connection
R1
R2
SER8150   Hotel room controller (HRC)

Wired connection
R1
R2
SER8150   ZigBee

Eco truxure
Ready for BEMS
BACnet
Modbus

Wall/ceiling motion/ temperature/humidity sensor

Door/window sensor

CO_2 /temperature/humidity sensor

Water leakage sensor

Sensing and control technology

Using sensors from Schneider Electric, high-quality occupancy control and automatic IAQ control are realised. The sensors detect the presence or absence of occupants, and the opening and closing of doors and windows to achieve the most efficient energy management for exceptional air-conditioned comfort.
Flexible installation is possible to match different applications and building features such as walls, ceilings and proximity to doors and windows. No wiring means extra installation versatility.

Batteries last for up to five years (10-year battery for CO_2 sensor) and are easy to install and replace.

ZigBee

1

3

2

Built in PIR, humidity

4

5

6
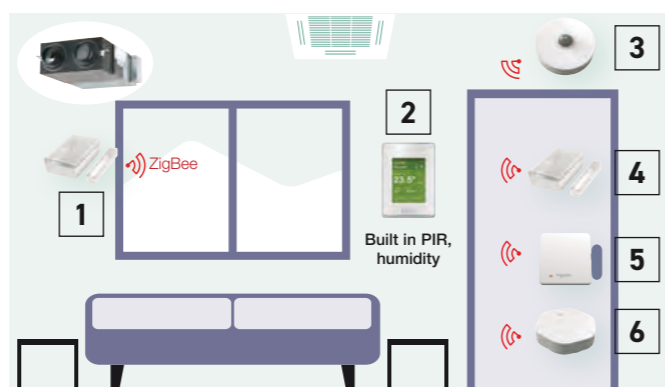
1 | Window sensor (option).
2 | Room controller.
3 | Ceiling motion sensor (option).
4 | Door sensor (option).
5 | CO_2 sensor (option).
6 | Water leakage sensor (option).

Pana Net Con, RH, No PIR, SE Brand, R1R2.
SER8150R0B1194

Pana Net Con, RH, PIR, SE Brand, R1R2.
SER8150R5B1194

Wireless ZigBee® Pro communication card.
VCM8000V5094P

Hotel room expansion module 14 indoor units.
HRCEP14R

Hotel room controller 28 indoor units.
HRCPBG28R

Hotel room controller w/display 42 indoor units.
HRCPDG42R

* Those accessories require system integrator support on site.

Sensor with room CO_2, temperature and humidity.
SED-CO2-G-5045

Sensor with room temperature and humidity.
SED-TRH-G-5045

Door/window sensor.
SED-WDC-G-5045

Wall/ceiling motion/temperature/ humidity sensor.
SED-MTH-G-5045

Water leakage sensor.
SED-WLS-G-5045

Cover frame. Silver.
FAS-00

Cover frame. White.
FAS-01

Cover frame. Glossy translucent white.
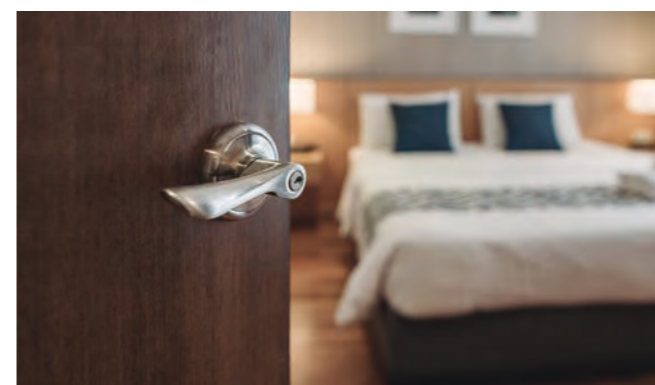FAS-03

Cover frame. Light tan wood.
FAS-05

Cover frame. Dark brown wood
FAS-06

Cover frame. Dark black wood.
FAS-07

Cover frame. Brushed steel finish.
FAS-10

Up to 5 year battery life (batteries included). Battery life of CO_2 sensor up to 10 years. Battery level data point.

Smart management solutions

1 Hotels

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.

2 Small and medium offices

CO_2 sensors (option) and humidity sensors. CO_2 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.

3 Super markets

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.

Innovative and unrivalled advantages

Colour and design to match office interiors.
Colour combinations and design can be set to match different facilities.

Easy-to-understand error description.
Error description during an emergency is easy to understand, enabling staff to respond quickly.

Customisation in 22 languages possible.
The display can be customised to match the native languages of guests to enable smooth, stress-free communication for hospitality at its finest.

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