

# FSV Controllers

A wide variety of control options to meet the requirements of different applications.

**ECONAVI**  
**ECONAVI Sensor**  
 CZ-CENSC1



Utilises ECONAVI Sensor and Control Program technologies to detect where energy is normally wasted and self-adjusts cooling power to reduce energy waste.

- Activity detection
- Absence detection

| Operation system                               | Individual control systems   |  |  |  |
|--|--|--|--|--|
| Requirements                                   | Simplified high-spec operation   | High-spec operation  | Normal operation   | Operation from anywhere in the room  |
| External appearance                            |  |  |  |  |
| Type, model name                               | Simplified high-spec Wired Remote Controller with Bluetooth<br>CZ-RTC6W/CZ-RTC6WBL/*CZ-RTC6WBLW (White)<br>CZ-RTC6/CZ-RTC6BL/*CZ-RTC6BLW (Black)<br>*Available for particular types of VRF indoor units. | High-spec Wired Remote Controller<br>CZ-RTC5B  | Timer Remote Controller (Wired)<br>CZ-RTC4A  | Wireless Remote Controller<br>Controller: CZ-RWS3<br>Receiver: CZ-RWRU3 CZ-RWRY3<br>CZ-RWRL3 CZ-RWRD3<br>CZ-RWRT3 CZ-RWRC3 |
| Built-in thermostat                            | ●  | ●  | ●  | —  |
| nanoe™ X on/off control                        | ●  | ●  | ●  | ●  |
| ECONAVI ON/OFF control                         | ●  | ●  | ●  | ●  |
| Number of indoor units which can be controlled | 1 group, 8 units   | 1 group, 8 units   | 1 group, 8 units   | 1 group, 8 units   |
| Use limitations                                | · CZ-RTC6(W) : Up to 2 controllers can be connected per group (only combination possible with CZ-RTC6(W))<br>· CZ-RTC6(W)BL/CZ-RTC6(W)BLW : Up to 1 controller can be connected per group                | · Up to 2 controllers can be connected per group (When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit) | · Up to 2 controllers can be connected per group (When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit) | · Up to 2 controllers can be connected per group.  |
| Function ON/OFF                                | ●  | ●  | ●  | ●  |
| Mode setting                                   | ●  | ●  | ●  | ●  |
| Fan speed setting                              | ●  | ●  | ●  | ●  |
| Temperature setting                            | ●  | ●  | ●  | ●  |
| Air flow direction                             | ●  | ●  | ●  | ●  |
| Permit/Prohibit switching                      | —  | —  | —  | —  |
| Weekly program*                                | ●  | ●  | ●  | —  |

All specifications are subject to change without notice.  
 \*(CZ-RTC6(W)BL/CZ-RTC6(W)BLW with H&C Control App)

| Timer operation   | Centralised control systems  |  |  |   | BMS System PC Base | Connection with 3rd Party Controller |
|---|--|--|--|---|--------------------|--------------------------------------|
| Daily and weekly program  | Operation with various functions from a central location   | Only ON/OFF operation from a central location  | Simplified load distribution ratio (LDR) for each tenant                         | 10.4 in. touch screen panel color LCD   | <br>CZ-CSWKC2      | <br>CZ-CAPDC2                        |
| Schedule Timer  | System Controller  | ON/OFF Controller  | Intelligent Controller   | <br>CZ-CSWAC2 for Load distribution<br>CZ-CSWWC2 for Web application<br>CZ-CSWGC2 for Object layout display<br>CZ-CSWBC2 for BACnet software interface<br>*PC required (field supply) |                    |                                      |
| CZ-ESWC2  | CZ-64ESMC3   | CZ-ANC3  | CZ-256ESMC3 (CZ-CFUNC2)  |   |                    | <br>CZ-CFUNC2<br><br><br>CZ-CLNC2    |
| —   | —  | —  | —  |   |                    |                                      |
| —   | —  | —  | —  |   |                    |                                      |
| —   | ●  | —  | ●  |   |                    |                                      |
| 64 groups, max. 64 units  | 64 groups, max. 64 units   | 16 groups, max. 64 units   | 64 units x 16 systems, max. 256 units  |   |                    |                                      |
| · Required power supply from the system controller<br>· When there is no system controller, connection is possible to the T10 terminal of an indoor unit. | · Up to 10 controllers, can be connected to one system.<br>· Main unit/sub unit (1 main unit + 1 sub unit) connection is possible.<br>· Use without remote controller is possible. | · Up to 8 controllers (4 main units + 4 sub units) can be connected to one system.<br>· Use without remote controller is impossible. | · A communication adaptor (CZ-CFUNC2) must be installed for three or more links. |   |                    |                                      |
| —   | ●  | ●  | ●  |   |                    |                                      |
| —   | ●  | —  | ●  |   |                    |                                      |
| —   | ●  | —  | ●  |   |                    |                                      |
| —   | ●  | —  | ●  |   |                    |                                      |
| —   | ●  | —  | ●  |   |                    |                                      |
| —   | ●  | ●  | ●  |   |                    |                                      |
| ●   | ●  | —  | ●  |   |                    |                                      |

# Panasonic Total Air Conditioning Management System P-AIMS

## P-AIMS basic software / CZ-CSWKC2

Up to 1024 indoor units can be controlled by one PC

### Functions of basic software

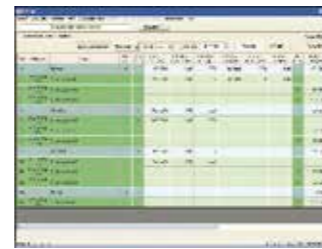
- Standard remote control for all indoor units
- Many timer schedule programs can be set on the calendar
- Detailed information display for alarms
- CSV file output with alarm history, operating status.
- Automatic data backup to HDD



With 4 upgrade packages the basic software can be upgraded to suit individual requirements. For Load Distribution software, digital power meter c/w pulse require (field supply)



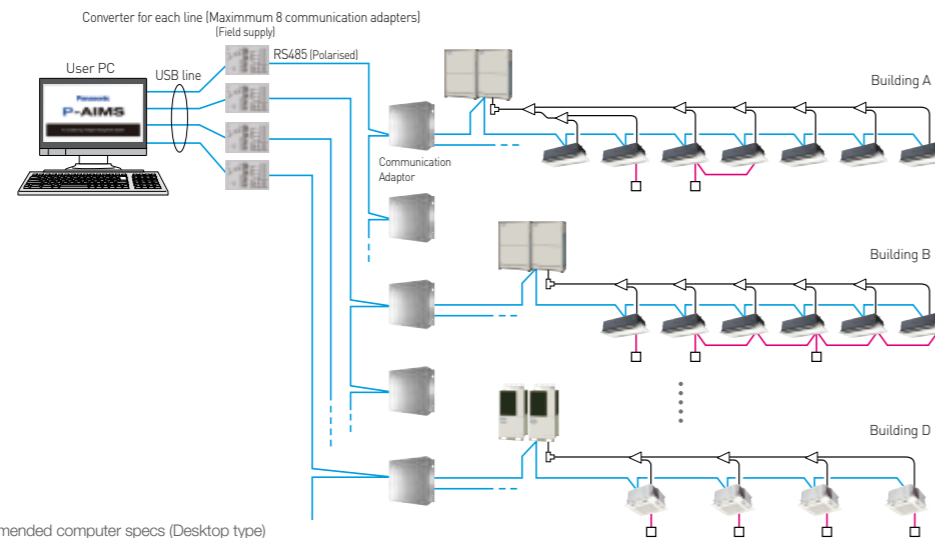
CZ-CFUNC2



The P-AIMS is ideal for large areas/buildings such as shopping centers, universities and office buildings.

Each line can have max.8 communication adaptors units, and control max.512 units.

In total, 1024 indoor units can be controlled by 1 "P-AIMS" PC.



### Recommended computer specs (Desktop type)

|                    |  |
|--------------------|--|
| Operating system   | Windows 10 Pro 64bit   |
| CPU                | Intel Core™ i5-6500 3.20GHz or higher (Recommended computer)<br>Intel Core™ i7-7700 3.60GHz or higher<br>(When installing Layout Display Software or using 512 or more indoor units) |
| Memory             | 8GB or larger  |
| HDD                | SSD (Solid State Drive) 250GB or larger  |
| Monitor            | 1920 x 1080 (full HD) Recommended (1280 x 1024 (SXGA) minimum)   |
| (Built-in speaker) | 1920 x 1080 (full HD) Required (when installing Layout Display Software)   |
| External HDD       | 500GB or larger (An external power supply type is preferable because the HDD will be used for backing up data.)  |
| LAN                | Network adaptor equipped machine<br>(when Web Software or BACnet Communication Software installed)   |
| UPS (Field Supply) | Select a UPS with a sine output wave form  |

## Intelligent Controller (CZ-256ESMC3)



Touch panel

Dimensions  
H 240 x W 280 x D 85 mm  
Power supply AC 100 to 240 V (50/60 Hz)  
LCD: 10.4 in. TFT, XGA(1024 x 768), LED backlight  
UPS (Field Supply):select UPS with a sine output wave form

### Product features

- 10.4 in., large, easy-to-use color LCD
  - With smartphone like operations, such as swiping and flicking
- Enhanced energy-saving control functions
  - Packed with demand functions
  - Set temperature auto return settings, Auto shutoff, Set temperature range limit settings
- Energy visualization
  - Displays electricity & gas usage distribution
  - Supports energy-saving plans with graph display function

### Limitation contents (Limitations can be user defined)

|               |  |
|---------------|--|
| Individual    | There is no limitation for the operation of the remote controller. However, the contents will be changed to the contents of the controller operated last. (Last-pressed priority.) |
| Prohibition 1 | The remote controller cannot be used for ON/OFF. (All other operations are possible from the remote controller.)   |
| Prohibition 2 | The remote controller cannot be used for ON/OFF, operation mode change and temperature setting. (All other operations are possible from the remote controller.)                    |
| Prohibition 3 | The remote controller cannot be used for operation mode change and temperature setting. (All other operations are possible from the remote controller.)                            |
| Prohibition 4 | The remote controller cannot be used for operation mode change. (All other operations are possible from the remote controller.)  |

### New features

- Max 256 indoor unit [4 links x 64 units] can be controlled. In case of three or more links [more than 128 units], a communication adaptor CZ-CFUNC2 must be installed for three or more links.
- Operation is possible as batch, in zone units, and in group units.
- ON/OFF, operation mode setting, temperature setting, for fan speed setting, air flow direction setting (when used without a remote controller) and remote controller local operation prohibition [prohibition 1,2,3,4] can be done
- Graph display [trends, comparisons]
- ECONAVI ON/OFF
- Outdoor unit quiet operation ON/OFF
- Energy-saving functions
- Event control [such as equipment linkage]
- Limitation contents for prohibited operation

Prohibition means limitation of the operation contents from the remote controller. It is also possible to change the prohibition items.

### Remote control

The LAN terminal on this unit enables you to connectit to a network. Connecting to internet will enable you to operate the unit and check the status using a PC from remote location.

### Power Distribution function

You can view cumulative electrical consumption per indoor unit or in a area. Digital power meter with pulse require (Field Supply) for this function