

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 CZ-RTC6W/CZ-RTC6WBL/*CZ-RTC6WBLW (White) CZ-RTC6/CZ-RTC6BL/*CZ-RTC6BLW (Black) <small>*Available for particular types of VRF indoor units.</small>	High-spec Wired Remote Controller CZ-RTC5B	Timer Remote Controller (Wired) CZ-RTC4A	Wireless Remote Controller Controller: CZ-RWS3 Receiver: CZ-RWRU3 CZ-RWRY3 CZ-RWRL3 CZ-RWRD3 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	<ul style="list-style-type: none"> · CZ-RTC6(W) : Up to 2 controllers can be connected per group (only combination possible with CZ-RTC6(W)) · CZ-RTC6(W)BL/CZ-RTC6(W)BLW : Up to 1 controller can be connected per group 	<ul style="list-style-type: none"> · Up to 2 controllers can be connected per group (When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit) 	<ul style="list-style-type: none"> · Up to 2 controllers can be connected per group (When using ECONAVI sensor, only one remote controller is possible to connect at indoor unit) 	<ul style="list-style-type: none"> · 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	 P-AIMS Software Up to 1024 units CZ-CSWKC2	 Seri-Para I/O unit for outdoor unit CZ-CAPDC2
Schedule Timer	System Controller	ON/OFF Controller	Intelligent Controller			
CZ-ESWC2	CZ-64ESMC3	CZ-ANC3	CZ-256ESMC3 (CZ-CFUNC2)		 Optional software CZ-CSWAC2 for Load distribution CZ-CSWWC2 for Web application CZ-CSWGC2 for Object layout display CZ-CSWBC2 for BACnet software interface *PC required (field supply)	 Interface Adaptor CZ-CAPC3 Seri-Para I/O unit for each indoor unit CZ-CAPBC2
—	—	—	—			
—	—	—	—			
—	●	—	●			
64 groups, max. 64 units	64 groups, max. 64 units	16 groups, max. 64 units	64 units x 16 systems, max. 256 units			
<ul style="list-style-type: none"> · Required power supply from the system controller · When there is no system controller, connection is possible to the T10 terminal of an indoor unit. 	<ul style="list-style-type: none"> · Up to 10 controllers, can be connected to one system. · Main unit/sub unit (1 main unit + 1 sub unit) connection is possible. · Use without remote controller is possible. 	<ul style="list-style-type: none"> · Up to 8 controllers (4 main units + 4 sub units) can be connected to one system. · Use without remote controller is impossible. 	<ul style="list-style-type: none"> · A communication adaptor (CZ-CFUNC2) must be installed for three or more links. 			
—	●	●	●			
—	●	—	●			
—	●	—	●			
—	●	—	●			
—	●	—	●			
—	●	●	●			
●	●	—	●			

Communication Adaptor
CZ-CFUNC2

LonWorks Interface
CZ-CLNC2

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

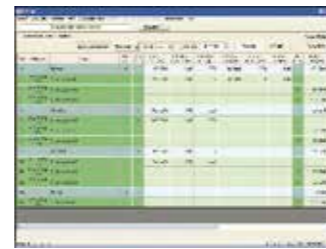
- Standard remote control for all indoor units
- Many timer schedule programs can be set on the calendar
- Detailed information display for alarms
- CSV file output with alarm history, operating status.
- Automatic data backup to HDD



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)



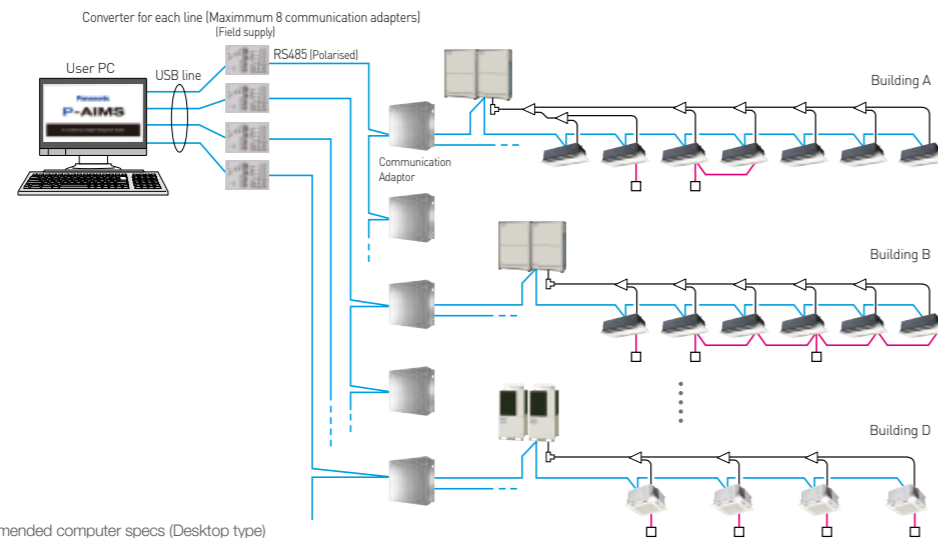
CZ-CFUNC2



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) Intel Core™ i7-7700 3.60GHz or higher (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 (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