Air-conditioning Control System
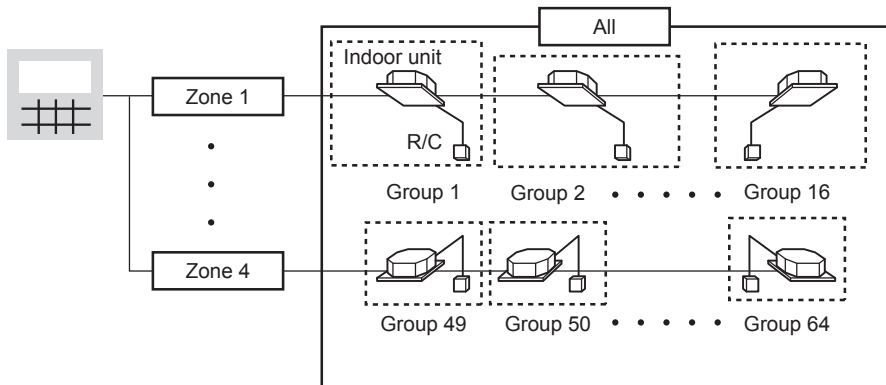
The most suitable air-conditioning control system can be selected according to the scale of the control/monitoring area.
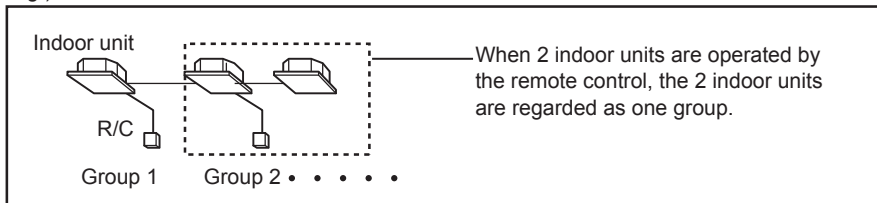
● Controlling indoor units

This unit alone enables multi-functional operations: Up to 64 indoor units can be controlled individually or collectively.

* 64 indoor units are divided into up to 4 zones, and can be controlled on All, Zone or Group basis.

All	• Operates and sets up to 64 indoor units.
Zone	• Registers multiple indoor units with up to 4 zones, and operates and sets each zone collectively.
Group	• Operates and sets each group. * The remote control operation is performed by the group.

e.g.)

When 2 indoor units are operated by the remote control, the 2 indoor units are regarded as one group.

• The above example shows this unit is connected as the central controller.

Air-conditioning Control System (continued)

● **Number of connectable indoor units**
  • Indoor unit: Max. 64 units
  • Number of settings: 4 zones, 64 groups
  • 1 zone: 16 groups, 64 units

● **Control mode**
  This unit is equipped with 2 "Operation modes" and 5 "Number-of-controlled-units modes"
  * Each mode is set at the time of installation. For details, refer to the Installation instructions.

● **Operation mode**
  • **"Central control mode":**
  Uses this unit as the "Central controller"

  ┌─ **Note** ───┐
  │ When the Central control mode is set, the "Prohibit R/C mode" can be used. │
  └──┘

  • **"Remote control mode":**
  Uses this unit as the "Remote control".
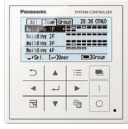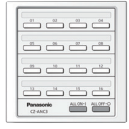
  ┌─ **Note** ───┐
  │ When the Remote control mode is set, the "Prohibit R/C mode" cannot be used. Also, if other │
  │ central controllers sets "Prohibit R/C", this unit cannot operate indoor units. │
  └──┘

● **Number-of-controlled-units mode**
  • **All mode**
  Controls on All, Zone or Group basis.
  • **"Zone 1, Zone 2, Zone 3 and Zone 4 modes"**
  Operates and sets only the indoor units in any of the Zone 1, Zone 2, Zone 3 and Zone 4.

		Operation mode	
		Central control mode	Remote control mode
Number-of-controlled-units mode	All mode	All central control	All remote control
	Zone 1 mode	Zone 1 central control	Zone 1 remote control
	Zone 2 mode	Zone 2 central control	Zone 2 remote control
	Zone 3 mode	Zone 3 central control	Zone 3 remote control
	Zone 4 mode	Zone 4 central control	Zone 4 remote control

Centralized Controller System Function List

Operation system	Timer operation	Centralised control systems			BMS System PC Base	Connection with 3rd Party Controller
Requirements	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		
External appearance					**P-AIMS Software** Up to 1024 units CZ-CSWKC2	**Seri-Para I/O unit for outdoor unit** CZ-CAPDC2
Type, model name	Schedule Timer CZ-ESWC2	System Controller CZ-64ESMC3	ON/OFF Controller CZ-ANC3	Intelligent Controller CZ-256ESMC3 (CZ-CFUNC2)		**Interface Adaptor** CZ-CAPC3
Built-in thermostat	—	—	—	—	**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)	**Seri-Para I/O unit for each indoor unit** CZ-CAPBC2
nanoe™ X on/off control *not applies to Floor Console	—	—	—	—		**Communication Adaptor** CZ-CFUNC2
ECONAVI ON/OFF control	—	●	—	●		**LonWorks Interface** CZ-CLNC2
Number of indoor units which can be controlled	64 groups, max. 64 units	64 groups, max. 64 units	16 groups, max. 64 units	64 units x 16 systems, max. 256 units		
Use limitations	· Required power supply from the system controller · 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. · Main unit/sub unit (1 main unit + 1 sub unit) connection is possible. · Use without remote controller is possible.	· Up to 8 controllers (4 main units + 4 sub units) can be connected to one system. · Use without remote controller is impossible.	· A communication adaptor (CZ-CFUNC2) must be installed for three or more links.		
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.