

INSTALLATION INSTRUCTIONS

LonWorks Interface Model No. CZ-CLNC1U

Panasonic[®]

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Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, follow the attached installation instructions.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

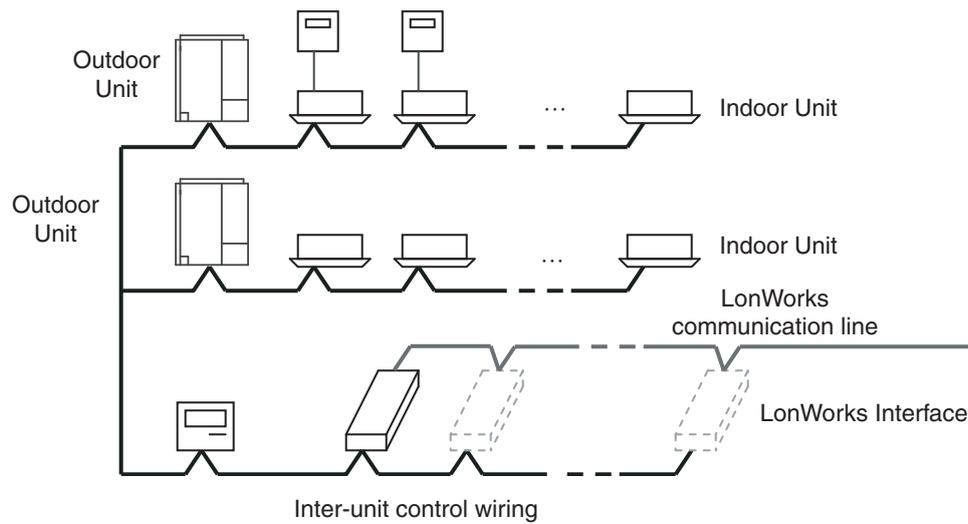
LonWorks is a registered trademark of the Echelon Corporation.

1. LonWorks Interface Overview

Product Overview

This interface is a communications interface for connecting LonWorks to an air conditioner unit control network. From the host connected to LonWorks, basic settings and status monitoring is possible for up to 16 groups of A/C units.

System Diagram



- Up to 16 groups of indoor units (maximum 64 units) can be controlled with 1 LonWorks Interface unit. For 17 or more groups of indoor units, connect additional interface units.
- Install a remote controller (or system controller, etc.), which can control the A/C units, to an inter-unit control wiring other than the LonWorks Interface unit.
- Before making the connection to the LonWorks Interface unit, set the central control addresses in the indoor units.

Functions

A/C unit settings from the LonWorks	Settings for each group of indoor units	Start/stop
		Temp. setting(*1)
		Operation mode
		Option 1 settings(*2)
	Option 2 settings(*2)	
	Settings for all units	Emergency stop
A/C unit status notifications made to the LonWorks		Start/stop
		Temp. setting
		Operation mode
		Option 1 settings(*2)
		Option 2 settings(*2)
		Alarm status(*3)
		Indoor units with active alarms(*4)
		Room temp(*5)
Configuration properties		A/C unit status(*6)
		Transmission interval settings(*7)
		Minimum time secured for transmission(*8)

(*1) When a temperature above the upper limit of the temperature which can be set by the indoor units has been specified, it will be set to the upper limit; conversely, when a temperature below the lower limit has been specified, it will be set to the lower limit.

(*2) Two options can be selected using the setting switch from among remote-controller prohibit, fan speed setting, air direction setting and filter sign.

(*3) When indoor units are under group control, an alarm is determined to have occurred when the alarm occurs at one or more of the units.

(*4) The number of the indoor unit at which the alarm has occurred is notified. This makes it possible to identify at which indoor unit of the indoor unit group the alarm has occurred.

(*5) When indoor units are under group control, the room temperature of the main unit in the group is notified.

(*6) When an alarm occurs at one or more indoor units, the alarm code is notified as the indoor unit status.

(*7) All the data which can be output is output at the set interval.

(*8) The same data is not output continuously at the set interval.

2. Installation Instructions of LonWorks Interface

Safety Precautions

- * The following is intended for the installer responsible for installation and test operations of the LonWorks Interface, and should be carefully read before beginning.
- * The precautions given in this manual consist of specific "Warnings" and "Cautions." They provide important safety-related information and are important for your safety, the safety of others, and trouble-free operation of the system. Be sure to strictly observe all safety procedures. The labels and their meanings are as described below.



Warning

This symbol refers to a hazard or unsafe procedure or practice which can result in severe personal injury or death.



Caution

This symbol refers to a hazard or unsafe procedure or practice which can result in personal injury or product or property damage.

- ※After installation is completed, perform a test run to check for operating trouble. As you do, use the central control device *Operating Instructions* and explain operating procedures to the customer. Then request that the customer store this manual together with the central control device *Operating Instructions*.



Warning

- Be sure to arrange installation from the dealer where the system was purchased or using a professional installer. Electric shock or fire may result if an inexperienced person performs any installation or wiring procedures incorrectly.
- Please install and ensure construction according to *Installation Instructions of LonWorks Interface*.
- Only a qualified electrician should attempt to connect this system, in accordance with the instructions in this manual. If the electrical circuit capacity is insufficient a danger of electric shock and fire may be present.
- Use the specified cables (type and wiring diameter) for the electrical connections, and connect the cables securely. Run and fasten the cables securely so that external forces or pressure placed on the cables will not be transmitted to the connection terminals. Overheating or fire may result if connections or attachments are not secure.



Caution

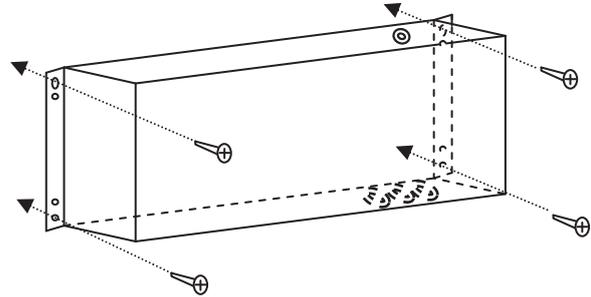
Depending on the installation conditions and location, an earth leakage breaker may be required. If an earth-leakage breaker is not installed, there is a danger of electric shock or fire.

Included Parts

No.	Part	Qty
(1)	 Installation Instructions	1

Installation Method

- The screws used to install the main unit must be provided by the installer.



- Install the LonWorks Interface away from any sources of electrical noise.

Wiring Specifications

- For the inter-unit control wiring use twin-core AWG#20 – AWG#14 cables.
- For the LonWorks communication line cables, use twisted-pair cables with a wire diameter of 0.51 mm (AWG#24) or larger as recommended by Echelon Corp.

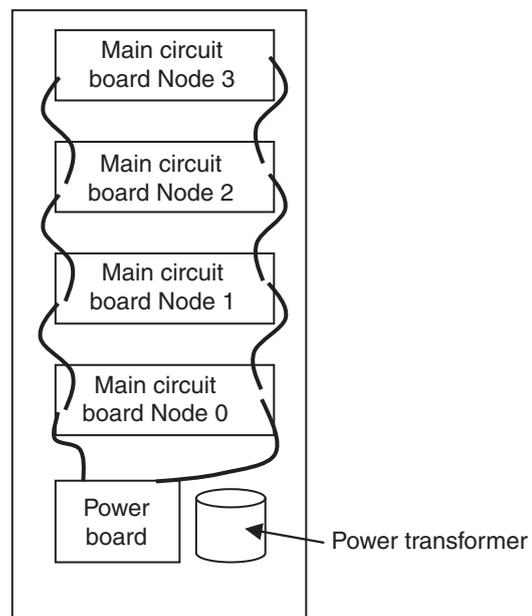
Examples of cables recommended by Echelon Corp.

Cable type	Wire diameter /AWG	Total cable length	
		Bus type	Free
24 AMG twisted-pair (TIA568A category 5)	0.51 mm /24	900 m (2953 ft.)	450 m (1476 ft.)

- Do not use the same cable for the inter-unit control wiring, the LonWorks communication lines, and the power cable. Do not run them through the same conduit or place the cables near one another.
- Connect the cables so that there is no miswiring. (Miswiring can cause malfunction.)

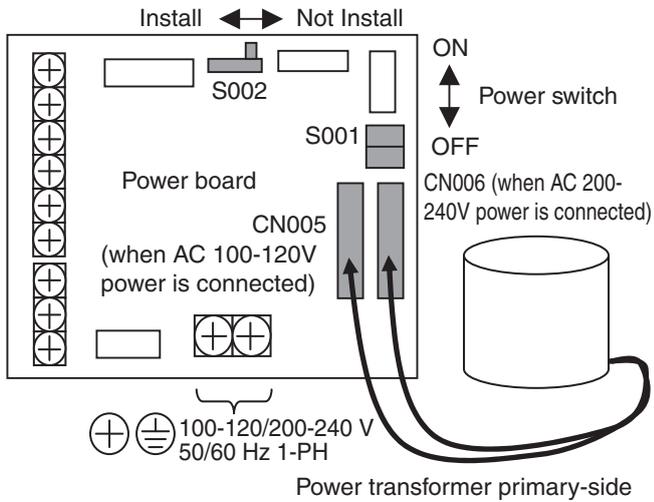
LonWorks Interface Structure

- This interface contains 4 LonWorks communication boards (nodes).
- Up to 4 indoor unit groups (maximum 32 units) can be assigned to 1 node.



Power Board Initial Settings

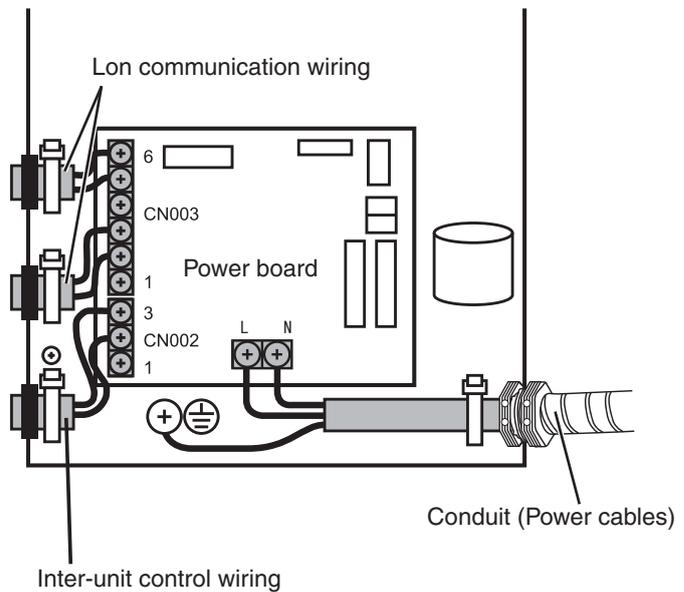
Not Install: Ordinarily, keep this set to “Not Install” (initial setting).
Install: Free topology terminal resistor (51Ω) for the LonWorks communication lines.



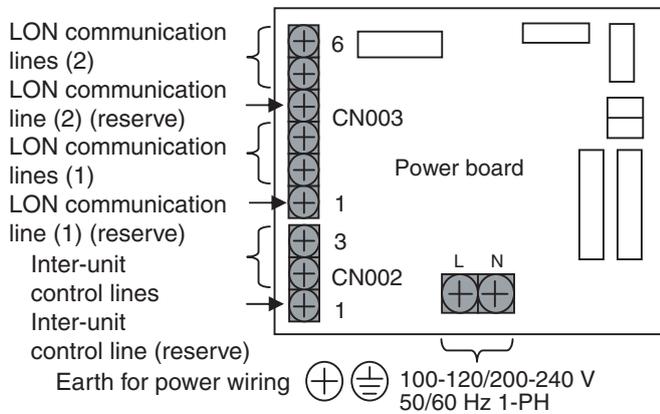
When AC 200-240V power is connected, connect the power transformer primary-side to CN006. When AC 100-120V power is connected, connect the power transformer primary-side to CN005. (It is connected to CN006 when the unit is shipped from the plant.)

Wiring Procedure

- Connect the power supply lines to the L and N power supply terminals.
(the power supply neutral to the N terminal.)
- Connect an earth ground line to the screw.

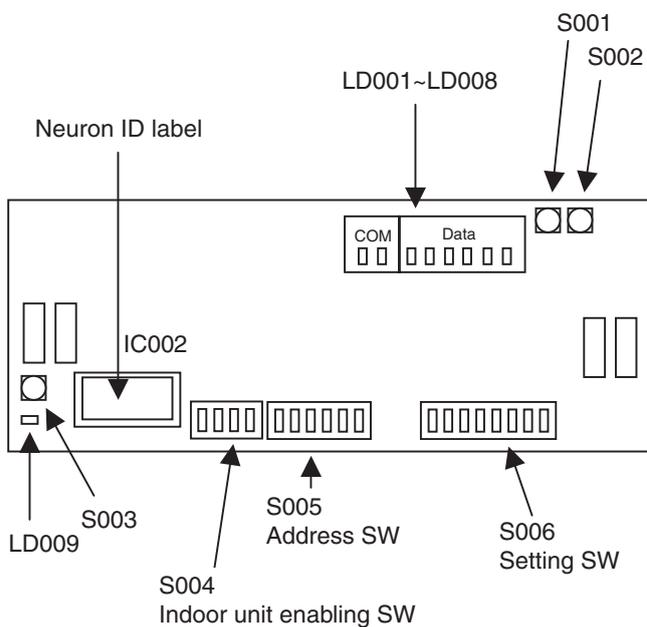


Power Board Wiring

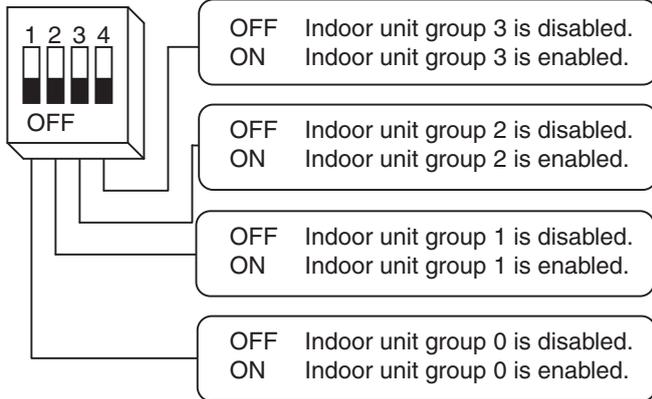


- The LonWorks communication lines can be connected to either (1) or (2) in the above figure. The results are the same.
- Do not run the inter-unit control lines, the LonWorks communication lines, and the power cables through the same conduit, or place the cables near one another. Doing so can cause the system to malfunction.
- Before turning the power on, follow the instruction in *Power Board Initial Settings*.
- When using the spare inter-unit control line, connect [1] and [3] at CN002.
- When using the spare LON communication line, connect [1] and [3] or [4] and [6] at CN003.

Main Circuit Board

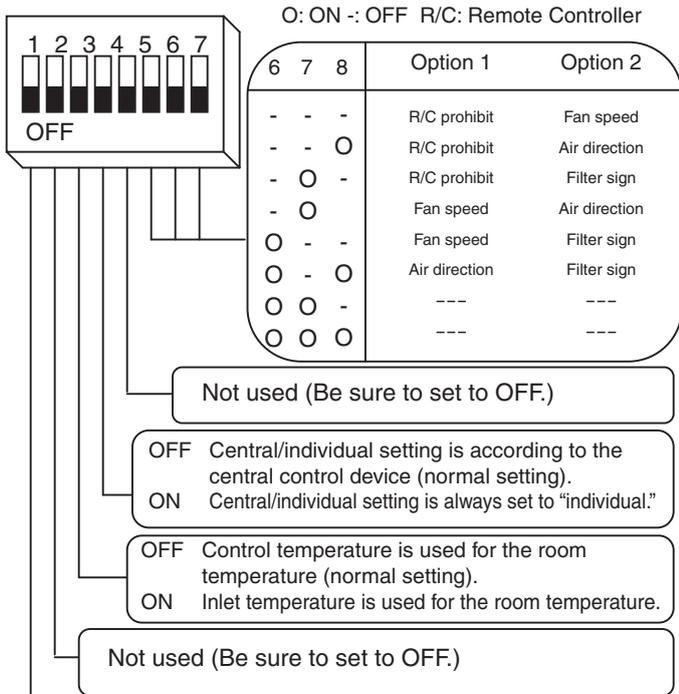


Indoor Unit Enabling Switches



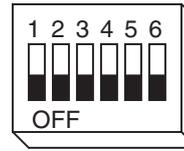
- One main circuit board can control 4 groups (indoor unit groups 0 – 3).
- Set to “disable” if the indoor unit group does not exist. Set to “enable” if the indoor unit group exists.

Setting Switches



- OFF Communicate as a “sub” central control device.
ON Communicate as a “main” central control device.
- If there are no central control devices other than this interface, set to “main” (ON).
 - To set this interface as the main, set only node 0 to “main” (ON).
 - If using in combination with a communication adapter, AMY adapter, intelligent controller, or system controller, set to “sub” (OFF).
 - If using in combination with an ON/OFF controller, set the ON/OFF controller as the main if the ON/OFF controller’s remote-controller prohibit function is to be used. If this interface’s remote-controller prohibit function is to be used, set this interface as the main.

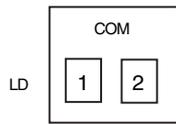
Address Switches



O : ON - : OFF

Address switch						Central control address
1	2	3	4	5	6	
-	-	-	-	-	-	1
O	-	-	-	-	-	2
-	O	-	-	-	-	3
O	O	-	-	-	-	4
-	-	O	-	-	-	5
O	-	O	-	-	-	6
-	O	O	-	-	-	7
O	O	O	-	-	-	8
-	-	-	O	-	-	9
O	-	-	O	-	-	10
-	O	-	O	-	-	11
O	O	-	O	-	-	12
-	-	O	O	-	-	13
-	O	O	O	-	-	14
-	O	O	O	-	-	15
O	O	O	O	-	-	16
-	-	-	-	O	-	17
-	-	-	-	O	-	18
-	O	-	-	O	-	19
O	O	-	-	O	-	20
-	-	O	-	O	-	21
O	-	O	-	O	-	22
-	O	O	-	O	-	23
O	O	O	-	O	-	24
-	-	-	O	O	-	25
O	-	-	O	O	-	26
-	O	-	O	O	-	27
O	O	-	O	O	-	28
-	-	O	O	O	-	29
O	-	O	O	O	-	30
-	O	O	O	O	-	31
O	O	O	O	O	-	32
-	-	-	-	-	O	33
O	-	-	-	-	O	34
-	O	-	-	-	O	35
O	O	-	-	-	O	36
-	-	O	-	-	O	37
O	-	O	-	-	O	38
-	O	O	-	-	O	39
O	O	O	-	-	O	40
-	-	-	O	-	O	41
O	-	-	O	-	O	42
-	O	-	O	-	O	43
O	O	-	O	-	O	44
-	-	O	O	-	O	45
O	-	O	O	-	O	46
-	O	O	O	-	O	47
O	O	O	O	-	O	48
-	-	-	-	O	O	49
O	-	-	-	O	O	50
-	O	-	-	O	O	51
O	O	-	-	O	O	52
-	-	O	-	O	O	53
O	-	O	-	O	O	54
-	O	O	-	O	O	55
O	O	O	-	O	O	56
-	-	-	O	O	O	57
O	-	-	O	O	O	58
-	O	-	O	O	O	59
O	O	-	O	O	O	60
-	-	O	O	O	O	61
O	-	O	O	O	O	62
-	O	O	O	O	O	63
O	O	O	O	O	O	64

Communications LED (Green)



COM: Communications

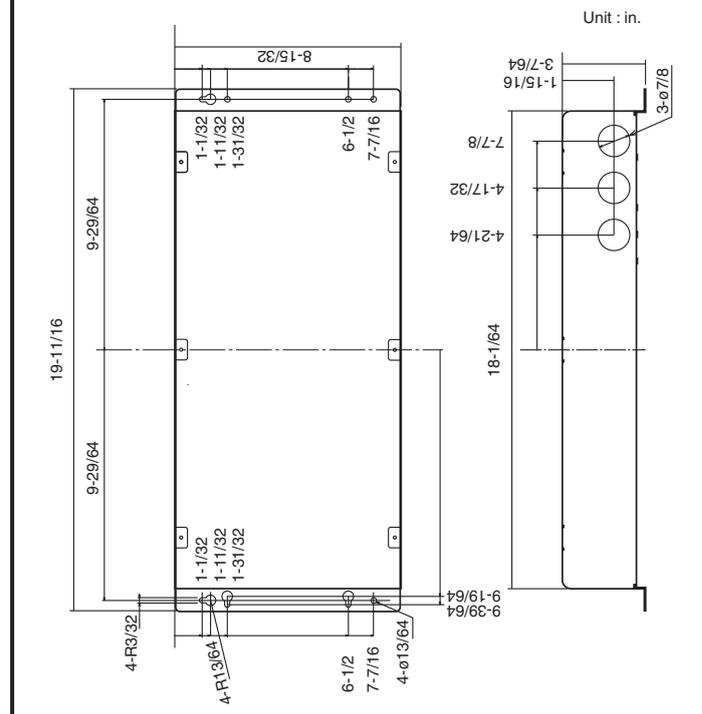
LD001	LD002	Display meaning
X	X	① Power OFF
X	Low	② -----
X	High	③ Flash writer writing in progress
X	O	④ Waiting for A/C unit initial communication
Low	X	⑤ A/C unit initial communication in progress
Low	Low	⑥ -----
Low	High	⑦ LonWorks communication microcomputer error
Low	O	⑧ EEPROM error
High	X	⑨ -----
High	Low	⑩ -----
High	High	⑪ -----
High	O	⑫ -----
O	X	⑬ Test run mode
O	Low	⑭ -----
O	High	⑮ Version display in progress
O	O	⑯ Normal communications in progress

X: Not lit, Low: Low-speed flashing (once/second)
High: High-speed flashing, O: Constantly lit

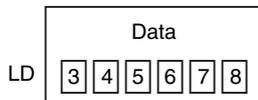
• Display of A/C unit communications status

LD	Indoor unit group	Display meaning
003	0	OFF: Waiting for initial communication Low-speed flashing: Waiting for minimum transmission interval High-speed flashing: Initial communication in progress ON: Normal communications in progress
004	1	
005	2	
006	3	
007	Illuminates for 200 ms when data is output to the LonWorks communicator.	
008	Illuminates for 200 ms when data is output to the indoor/outdoor communicator.	

Diagram of External Dimensions



Data LED (Red)



Communications LED	Data LED display meaning
①	No LED lit
②	All LEDs lit
③	-----
④	Displays the wait time (seconds) for A/C unit initial communication.
⑤	Displays the A/C unit communications status
⑥	-----
⑦	No LED lit
⑧	No LED lit
⑨	-----
⑩	-----
⑪	-----
⑫	-----
⑬	According to the test run mode specifications
⑭	-----
⑮	According to the version display specifications
⑯	Displays the A/C unit communications status

Product Specifications

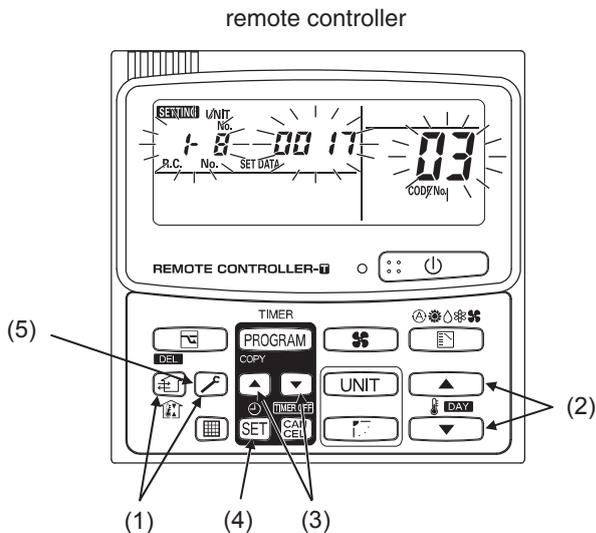
Connects to	LonWorks network FTT-10 A transceiver device
Power	100-120/200-240 V 50/60 Hz 1-PH
Power consumption	11 W max.
Service environment conditions	Temp. 32 to 104°F, humidity 20 to 80% Indoor use only
External dimensions	3-7/64 in.(H) × 19-11/16 in.(W) × 8-15/32 in.(D)
Weight	Approx. 7.27 lb.

3. Assigning Central Control Addresses

- Before assigning central control addresses for the LonWorks Interface, use the remote controller to make central control address settings for A/C units.
- Follow only the steps for “Assigning Central Control Addresses” when a system controller or other central controller is already provided.

[Setting Central Control Addresses]

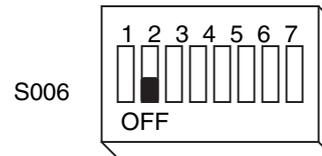
- (1) Press and hold both the and buttons for 4 seconds or longer. Check that the “SETTING” display on the remote controller is flashing.
- (2) Set the “03” item code by pressing the and temperature setting buttons.
- (3) Set the desired central control address by pressing the and timer buttons.
- (4) Press the button, and check that the “SETTING” display stops flashing and illuminates instead. (The setting data cannot be changed unless the button is pressed.)
- (5) Press the button, and check that the display on the remote controller has been cleared.



For example, in this case
Indoor unit address: 1-8
Central address: 17

[Assigning Central Control Addresses]

- (1) Turn the power switch (S001) on the LonWorks Interface power board to OFF.
- (2) Turn the setting switch (S006-2) to OFF (so that central control addresses are set with the DIP switches).



- (3) Set the first central control address with the address switch (S005). When assigning serial numbers, a consecutive series of numbers is assigned for the central control addresses.

<Example> If the first central control address is “5,” then this circuit board assigns central control addresses “5,” “6,” “7,” and “8.”



- (4) Make the enable/disable settings with the indoor unit enabling switches (S004).

<Example> If central control addresses “6” and “8” do not exist, enable only “5” and “7.”



“5” is set as the central control address for indoor unit group 0, and “7” is set as the central control address for indoor unit group 2.

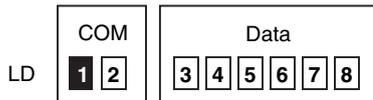
- (5) Turn the power switch (S001) on the LonWorks Interface power board to ON.

4. LonWorks Interface Test Run

Before performing a test run of the LonWorks Interface, perform test runs of the A/C units and assign central control addresses for A/C units.

[LonWorks Interface Test Run Procedure]

- Press and hold touch-switch S001 on the main circuit board for 5 seconds or longer. Test run mode is enabled for the main circuit board that is currently being controlled. LD001 illuminates, and LD002 – LD008 turn off.



- Press touch-switch S002. The data LEDs appear as shown in the tables below. In addition, the assigned indoor unit groups start and stop as shown in the tables below.

STEP 1		Indoor unit Gr	Start/stop
COM	Data	0	Stop
1	2	1	Stop
	3	2	Stop
	4	3	Stop
	5		
	6		
	7		
	8		



STEP 2		Indoor unit Gr	Start/stop
COM	Data	0	Start
1	2	1	Stop
	3	2	Stop
	4	3	Stop
	5		
	6		
	7		
	8		



STEP 3		Indoor unit Gr	Start/stop
COM	Data	0	Start
1	2	1	Start
	3	2	Stop
	4	3	Stop
	5		
	6		
	7		
	8		



STEP 4		Indoor unit Gr	Start/stop
COM	Data	0	Start
1	2	1	Start
	3	2	Start
	4	3	Stop
	5		
	6		
	7		
	8		



STEP 5		Indoor unit Gr	Start/stop
COM	Data	0	Start
1	2	1	Start
	3	2	Start
	4	3	Start
	5		
	6		
	7		
	8		



STEP 1		Indoor unit Gr	Start/stop
COM	Data	0	Stop
1	2	1	Stop
	3	2	Stop
	4	3	Stop
	5		
	6		
	7		
	8		

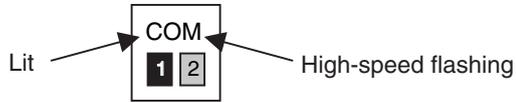


- Be sure to reset the power after the LonWorks Interface test run is completed.

5. Checking the LonWorks Interface Version

(1) Press touch-switch S002.

Version display mode is enabled on that circuit board for a period of 18 seconds. LD001 illuminates, and LD002 flashes at high speed.



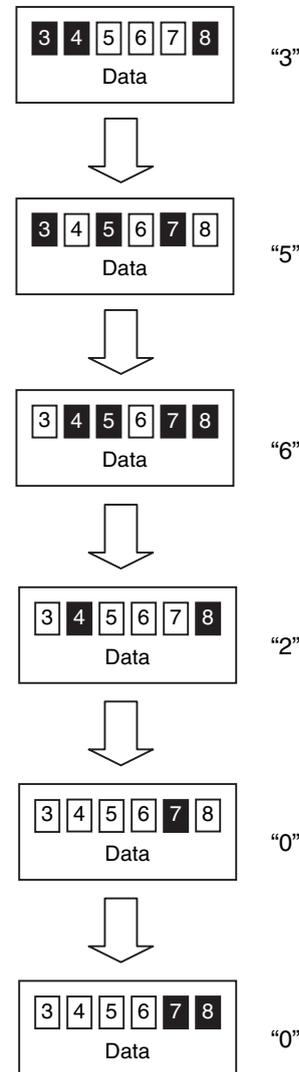
(2) While the version is displayed (18 seconds), the display contents are the following.

First 3 seconds	<p>Displays the first digit of the main microcomputer version</p> <p>Data</p>
Next 3 seconds	<p>Displays the second digit of the main microcomputer version</p> <p>Data</p>
Next 3 seconds	<p>Displays the third digit of the main microcomputer version</p> <p>Data</p>
Next 3 seconds	<p>Displays the first digit of the LonWorks I/F microcomputer version</p> <p>Data</p>
Next 3 seconds	<p>Displays the second digit of the LonWorks I/F microcomputer version</p> <p>Data</p>
Last 3 seconds	<p>Displays the third digit of the LonWorks I/F microcomputer version</p> <p>Data</p>

• Version display

0	3 4 5 6	5	3 4 5 6
1	3 4 5 6	6	3 4 5 6
2	3 4 5 6	7	3 4 5 6
3	3 4 5 6	8	3 4 5 6
4	3 4 5 6	9	3 4 5 6

<Example> Main microcomputer Version 3.56
LonWorks I/F microcomputer Version 2.00



6. List of LonWorks Network Variables

A/C unit	Input/output	Item	Variable name	Variable type
Indoor group 0	Input	Start/stop	nviOnOff_00	SNVT_switch
		Temp. setting	nviSetPoint_00	SNVT_temp_p
		Operating mode	nviHeatCool_00	SNVT_hvac_mode
		Option 1 setting	nviOption1_00	SNVT_switch
		Option 2 setting	nviOption2_00	SNVT_switch
	Output	Start/stop status	nvoOnOff_00	SNVT_switch
		Temp. setting	nvoSetPoint_00	SNVT_temp_p
		Operating mode	nvoHeatCool_00	SNVT_hvac_mode
		Option 1 status	nvoOption1_00	SNVT_switch
		Option 2 status	nvoOption2_00	SNVT_switch
		Alarm status	nvoAlarm_00	SNVT_switch
		Indoor units with active alarms	nvoAlarmIn_00	SNVT_switch
		Room temp.	nvoSpaceTemp_00	SNVT_temp_p
		Indoor unit status	nvoInState_00	SNVT_count
Indoor group 1	Input	Start/stop	nviOnOff_01	SNVT_switch
		Temp. setting	nviHeatCool_01	SNVT_temp_p
		Operating mode	nviSetPoint_01	SNVT_hvac_mode
		Option 1 setting	nviOption1_01	SNVT_switch
		Option 2 setting	nviOption2_01	SNVT_switch
	Output	Start/stop status	nvoOnOff_01	SNVT_switch
		Temp. setting	nvoSetPoint_01	SNVT_temp_p
		Operating mode	nvoHeatCool_01	SNVT_hvac_mode
		Option 1 status	nvoOption1_01	SNVT_switch
		Option 2 status	nvoOption2_01	SNVT_switch
		Alarm status	nvoAlarm_01	SNVT_switch
		Indoor units with active alarms	nvoAlarmIn_01	SNVT_switch
		Room temp.	nvoSpaceTemp_01	SNVT_temp_p
		Indoor unit status	nvoInState_01	SNVT_count
Indoor group 2	Input	Start/stop	nviOnOff_02	SNVT_switch
		Temp. setting	nviHeatCool_02	SNVT_temp_p
		Operating mode	nviSetPoint_02	SNVT_hvac_mode
		Option 1 setting	nviOption1_02	SNVT_switch
		Option 2 setting	nviOption2_02	SNVT_switch
	Output	Start/stop status	nvoOnOff_02	SNVT_switch
		Temp. setting	nvoSetPoint_02	SNVT_temp_p
		Operating mode	nvoHeatCool_02	SNVT_hvac_mode
		Option 1 status	nvoOption1_02	SNVT_switch
		Option 2 status	nvoOption2_02	SNVT_switch
		Alarm status	nvoAlarm_02	SNVT_switch
		Indoor units with active alarms	nvoAlarmIn_02	SNVT_switch
		Room temp.	nvoSpaceTemp_02	SNVT_temp_p
		Indoor unit status	nvoInState_02	SNVT_count
Indoor group 3	Input	Start/stop	nviOnOff_03	SNVT_switch
		Temp. setting	nviHeatCool_03	SNVT_temp_p
		Operating mode	nviSetPoint_03	SNVT_hvac_mode
		Option 1 setting	nviOption1_03	SNVT_switch
		Option 2 setting	nviOption2_03	SNVT_switch
	Output	Start/stop status	nvoOnOff_03	SNVT_switch
		Temp. setting	nvoSetPoint_03	SNVT_temp_p
		Operating mode	nvoHeatCool_03	SNVT_hvac_mode
		Option 1 status	nvoOption1_03	SNVT_switch
		Option 2 status	nvoOption2_03	SNVT_switch
		Alarm status	nvoAlarm_03	SNVT_switch
		Indoor units with active alarms	nvoAlarmIn_03	SNVT_switch
		Room temp.	nvoSpaceTemp_03	SNVT_temp_p
		Indoor unit status	nvoInState_03	SNVT_count
Indoor groups 0 – 3	Input	Emergency stop	nviAllInOff	SNVT_switch

Transmission intervals settings	nciSndHrtBt	SNVT_time_sec
Minimum time secured for transmission	nciMinOutTm	SNVT_time_sec

[nv7] Option 1 setting command

[nv9] Option 2 setting command

network input SNVT_switch nviOption1_00;
network input SNVT_switch nviOption1_01;
network input SNVT_switch nviOption1_02;
network input SNVT_switch nviOption1_03;
network input SNVT_switch nviOption2_00;
network input SNVT_switch nviOption2_01;
network input SNVT_switch nviOption2_02;
network input SNVT_switch nviOption2_03;

These input network variables are used to make the indoor unit option settings.

Two of the following 4 option settings can be selected: remote-controller prohibit, fan speed setting, air direction setting, and filter sign reset.

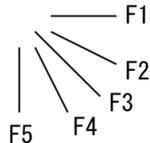
Make changes using the DIP switches on the main circuit board. When option settings are not made from the LonWorks, it is not necessary to use these network variables.

	State	Value	Start/stop operation	Temp. setting	Operating mode	
Remote-controller prohibit	0	(Not used)	O	O	O	
	1	100	x	O		
		120	O	x		
		140	x	x		
	1	150	O	O	x	
		160	x	O		
		180	O	x		
		200	x	x		
			Other	x		

O :Permitted
x :Prohibited

Fan speed setting	State	Value	Setting
	(Not used)	120	Auto
		200	High
		150	Medium
		100	Low
		Other	

Air direction setting	State	Value	Setting
	(Not used)	200	Swing
		170	F1
		140	F2
		110	F3
		80	F4
		50	F5
		Other	Swing



* Positions F4 and F5 can not be set for cool- and dry-mode operation.

Filter sign	State	Value	Setting
	0	0	OFF
	1		ON

[nv8] Option 1 setting status notification

[nv10] Option 2 setting status notification

network output SNVT_switch nvoOption1_00;
network output SNVT_switch nvoOption1_01;
network output SNVT_switch nvoOption1_02;
network output SNVT_switch nvoOption1_03;
network output SNVT_switch nvoOption2_00;
network output SNVT_switch nvoOption2_01;
network output SNVT_switch nvoOption2_02;
network output SNVT_switch nvoOption2_03;

These output network variables provide notification of changes in the status of the indoor unit option settings.

Two of the following 4 option settings can be selected: remote-controller prohibit, fan speed setting, air direction setting, and filter sign reset.

Make changes using the DIP switches on the main circuit board.

They are output when the LonWorks Interface or A/C unit power is reset.

	State	Value	Start/stop operation	Temp. setting	Operating mode
Remote-controller prohibit	0	0	O	O	O
	1	100	x	O	
		120	O	x	
		140	x	x	
	1	150	O	O	x
		160	x	O	
		180	O	x	
		200	x	x	

O :Permitted
x :Prohibited

Fan speed setting	State	Value	Setting
	1	120	Auto
		200	High
		150	Medium
		100	Low
		50	Very
		0	Stop

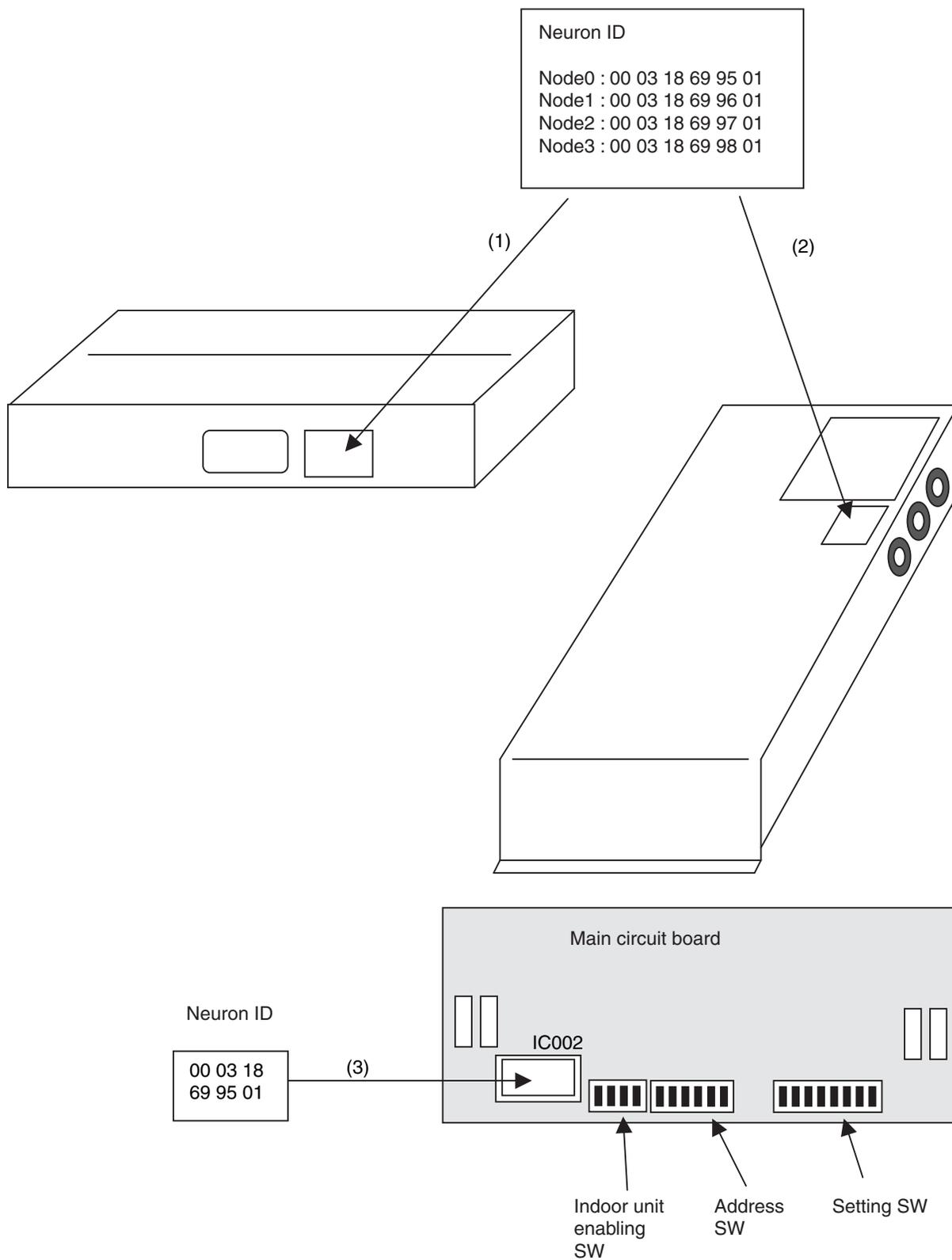
Air direction setting	State	Value	Setting
	1	200	Swing
		170	F1
		140	F2
		110	F3
		80	F4
		50	F5
		0	Stop

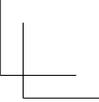
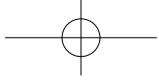
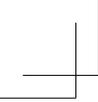
Filter sign	State	Value	Setting
	0	0	OFF
	1		ON

8. Locations Where Neuron ID is Applied

The Neuron ID is applied in the following 3 locations.

- (1) Packaging box
- (2) Top panel lid
- (3) On the main circuit board Neuron chip





Printed in Japan

